

20031125.qrp v03_n115.qrl.20031125

Date: Tue, 25 Nov 2003 19:03:06 EST
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 3115

QRP-L Digest 3115

Topics covered in this issue include:

- 1) [161808] Re: Monday.
by "Mike Yetsko" <myetsko@insydesw.com>
- 2) [161809] Kenwood TS-480
by "Henry Freedenberg" <henryf@quartz.gly.fsu.edu>
- 3) [161810] Re: Elmer 160: Time to get to work
by "Henry Freedenberg" <henryf@quartz.gly.fsu.edu>
- 4) [161811] Re: Monday.
by "Russ Hines" <wb8zcc@fuse.net>
- 5) [161812] RE: Monday.
by <dswenson@wearne.net>
- 6) [161813] Re: Monday.
by "NR5A" <nr5a@rap.midco.net>
- 7) [161814] good bands or fixed radio?
by sergio <sergio@village-buzz.com>
- 8) [161815] Did I miss something???
- by "Joseph Trombino Jr" <w2kj@bellsouth.net>
- 9) [161816] Re: Monday.
by Thom LaCosta <baltimoremd@baltimoremd.com>
- 10) [161817] Re: Monday.
by "Lynn Geitgey" <lgeitgey@kumc.edu>
- 11) [161818] Re: Monday.
by John Sielke <jsielke@pobox.com>
- 12) [161819] Elmer 160: MPLAB IDE
by "John J. McDonough" <wb8rcr@arrl.net>
- 13) [161820] RE: Kenwood TS-480
by "Augie Hansen" <augie.hansen@comcast.net>
- 14) [161821] Re: good bands or fixed radio?
by "Lee Hopper" <leehopp@msn.com>
- 15) [161822] Re: Elmer 160: Time to get to work
by "Joe Martin" <km5cw@wt.net>
- 16) [161823] Re: Argonaut 509 w/accessories - SOLD
by "NZ8J" <nz8j@woh.rr.com>
- 17) [161824] Re: Elmer 160: MPLAB IDE
by "Brian Riley (maillist)" <n1bq_list@wulfdan.org>
- 18) [161825] Re: Kenwood TS-480
by "Brian Riley (maillist)" <n1bq_list@wulfdan.org>
- 19) [161826] Re: Monday.

by Karl Larsen <k5di@zianet.com>

20) [161827] RE: Monday.
by "Dennis W. Farrell" <dennisw.farrell@verizon.net>

21) [161828] Re: Monday.
by "richgrp" <richgrp@cox.net>

22) [161829] Re: Monday.
by Michael Neverdosky <mikenever@earthlink.net>

23) [161830] RE: Did I miss something???

by "Michael Bower N4NMR" <bowerm@ix.netcom.com>

24) [161831] RE: Monday.
by "Michael Bower N4NMR" <bowerm@ix.netcom.com>

25) [161832] MAX 232 or other TTL-RS232 Interface
by Barry N1EU <n1eu@yahoo.com>

26) [161833] 2004 QRP Contest Calendar Now Shipping
by "Ron Polityka" <wb3aal@verizon.net>

27) [161834] How long does it take to destroy a part with high power?
by "Jason Hsu" <jhs001@heronetwork.com>

28) [161835] Re: Monday.
by David J Adams <david@theadamsclan.com>

29) [161836] Re: MAX 232 or other TTL-RS232 Interface
by Dale Botkin <dale@botkin.org>

30) [161837] Re: Monday.
by "Larry Przyborowski" <k3peg@comcast.net>

31) [161838] Re: Monday - Already Tuesday Here
by "Paul, VE1DY" <ve1dy@myway.com>

32) [161839] Any Piggies up late
by "Jerry Ford" <benlightnd13@mchsi.com>

33) [161840] MFJ 259B
by "George, W5YR" <w5yr@att.net>

34) [161841] Re: Z-11 Discontinued
by Richard Lourette <lourette@frontiernet.net>

35) [161842] re: cw issue CQ magazine(Dec.) has interesting pieces
by "Stuart Rohre" <rohre@arlut.utexas.edu>

36) [161843] Folks having Earthlink Spam Blocker, and Earthlink ISP should not
expect direct replies to queries
by "Stuart Rohre" <rohre@arlut.utexas.edu>

37) [161844] Re: MAX 232 or other TTL-RS232 Interface
by "Mike Yetsko" <myetsko@insydesw.com>

38) [161845] December Spartan Sprint Announcement
by "John Huffman" <hjohnc@core.com>

39) [161846] Auto Tuners
by "Pastor-kc1di" <elbc2@gwi.net>

40) [161847] Re: MAX 232 or other TTL-RS232 Interface
by David Hinerman <WD8CIV@worldnet.att.net>

41) [161848] Michigan QRP Net
by kwise@gdls.com

42) [161849] Re: MFJ 259B
by Karl Larsen <k5di@zianet.com>

43) [161850] RE: Monday.
by John Sielke <jsielke@pobox.com>

44) [161851] Re: Folks having Earthlink Spam Blocker, and Earthlink ISP
should not expect direct replies to queries
by "Michael C. Boatright" <ko4wx@mindspring.com>

45) [161852] Re: Monday.
by John Sielke <jsielke@pobox.com>

46) [161853] Re: How long does it take to destroy a part with high power
by "Michael C. Boatright" <ko4wx@mindspring.com>

47) [161854] more Kixie field fun!
by Lloyd Lachow <llachow@yahoo.com>

48) [161855] RE: How long does it take to destroy a part with high power
by "David Hinerman" <WD8CIV@worldnet.att.net>

49) [161856] DEC BIN HEX - Elmer-160
by John R Kirby <n3aaz-qrp@juno.com>

50) [161857] Not trying to rush anyone !
by Rick McKee <kc8aon@juno.com>

51) [161858] RE: DEC BIN HEX - Elmer-160
by "David Hinerman" <WD8CIV@worldnet.att.net>

52) [161859] Re: more Kixie field fun!
by Lloyd Lachow <llachow@yahoo.com>

53) [161860] Re: [Elecrafft] more Kixie field fun!
by Lloyd Lachow <llachow@yahoo.com>

54) [161861] MailWasher - Addendum
by "John Shannon" <jsk3wwp@alltel.net>

55) [161862] Re: Monday.
by "George, W5YR" <w5yr@att.net>

56) [161863] Re: MFJ 259B
by "George, W5YR" <w5yr@att.net>

57) [161864] Sorry, I couldn't help myself
by "Jerry Ford" <benlightnd13@mchsi.com>

58) [161865] Iowa QRP Club CW Net
by Mark Milburn <mark.milburn@ispwest.com>

59) [161866] Re: MAX 232 or other TTL-RS232 Interface
by "Mike Yetsko" <myetsko@insydesw.com>

60) [161867] Re: How long does it take to destroy a part with high power
by "Mike Yetsko" <myetsko@insydesw.com>

61) [161868] Re: DEC BIN HEX - Elmer-160
by sergio <sergio@village-buzz.com>

62) [161869] NW7US - Prop Prediction
by Brian <brian@iquest.net>

63) [161870] Re: How long does it take to destroy a part with high power
by "Jason Hsu" <jhs001@heronetwork.com>

64) [161871] Re: Folks having Earthlink Spam Blocker, and Earthlink ISP should
not expect direct replies to queries
by "Stuart Rohre" <rohre@arlut.utexas.edu>

65) [161872] Re: How long does it take to destroy a part with high power?
LONG

by Ed Tanton <n4xy@earthlink.net>
66) [161873] Comparison of the K2 to the Ten Tec Orion in Europe RF environment
by "Stuart Rohre" <rohre@arlut.utexas.edu>
67) [161874] Re: How long does it take to destroy a part with high power?
by Brad Thompson <Brad.Thompson@valley.net>
68) [161875] Re: How long does it take to destroy a part with high power
by Dale Botkin <dale@botkin.org>
69) [161876] CQWW DX Contest CW
by Karl Larsen <k5di@zianet.com>
70) [161877] Hustler 6BTV and 17 Meters
by "Brent Sutphin WB4X" <bsutphin@triad.rr.com>
71) [161878] re: Monday
by JClinton46@aol.com
72) [161879] Re: MAX 232 or other TTL-RS232 Interface
by "Bob Schreibmaier" <k3ph@ptd.net>
73) [161880] Re: MFJ 259B
by Karl Larsen <k5di@zianet.com>
74) [161881] Re: How long does it take to destroy a part with high power? SHORT
by John Sielke <jsielke@pobox.com>
75) [161882] FS keyers
by "Marty Hartwell" <chartwell@worldnet.att.net>
76) [161883] FOX HUNT TONIGHT!
by "Jerry Hall" <lugehall@hotmail.com>
77) [161884] Re: Comparison of the K2 to the Ten Tec Orion in Europe RF
environment
by "Bill Rowlett" <kc4atu@hotmail.com>
78) [161885] Re: How long does it take to destroy a part with high power
by Brad Thompson <Brad.Thompson@valley.net>

Date: Mon, 24 Nov 2003 18:54:38 -0500
From: "Mike Yettsko" <myetsko@insydesw.com>
To: <pwomble@earthlink.net>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [161808] Re: Monday.
Message-ID: <008901c3b2e6\$54e93e20\$0200a8c0@charter.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> Glad Doug didn't say to hold our breath!
>
> Paul K4FB
> www.qsl.net/wf4fp

Hmm, didn't he just say wait till Monday? I mean, he didn't say anything

would happen, right?

So we waited...

1 point -> Doug

Date: Mon, 24 Nov 2003 19:27:13 -0500
From: "Henry Freedenberg" <henryf@quartz.gly.fsu.edu>
To: qrp-1@Lehigh.EDU, fpqrp-1@mpna.com
Subject: [161809] Kenwood TS-480
Message-ID: <3FC25B91.14057.33BDBF@localhost>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-description: Mail message body

Well I guess by now everyone has seen the new Kenwood 480.

Anyone know what the street price will be? Is this supposed to compete with the 718?, 706? 746? ft-100? Is this a TS-50 replacement? When will it be available?
I really like the box having a built in 232 port so you will not need external level conversion. Someone should have done it sooner.

Henry

Date: Mon, 24 Nov 2003 19:27:12 -0500
From: "Henry Freedenberg" <henryf@quartz.gly.fsu.edu>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>, "John J. McDonough" <wb8rcr@arrl.net>
Subject: [161810] Re: Elmer 160: Time to get to work
Message-ID: <3FC25B90.29831.33BACA@localhost>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-description: Mail message body

If this is the project Doug was promoting...congratulations. It really looks great.

I want one. How much and where do I send the \$\$?

Looking forward to participating

Henry

On 23 Nov 2003 at 16:13, John J. McDonough wrote:

> FINALLY!

Date: Mon, 24 Nov 2003 19:27:58 -0500

From: "Russ Hines" <wb8zcc@fuse.net>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [161811] Re: Monday.

Message-ID: <003101c3b2ea\$fa0e04e0\$4407c00a@WB8ZCC2>

It's still early yet... as I write, only 4:30pm or so in "Doug-land."

Which reminds me... now that "Ahnoold" is California gov, think he'd be more open to amateur radio legislature? I'd think so.

Say, like codifying PRB-1? Just a thought.

73,

Russ

WB8ZCC

----- Original Message -----

From: "Mike Yetsko" <myetsko@insydesw.com>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Sent: Monday, November 24, 2003 6:54 PM

Subject: Re: Monday.

> > Glad Doug didn't say to hold our breath!

> >

> > Paul K4FB

> > www.qsl.net/wf4fp

>

> Hmm, didn't he just say wait till Monday? I mean, he didn't say anything

> would happen, right?

>

> So we waited...

>

> 1 point -> Doug

>

>
>
>

Date: Mon, 24 Nov 2003 18:29:21 -0600
From: <dswenson@wearne.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [161812] RE: Monday.
Message-ID: <NDBBJMPBEGLEHBGHAOAAKEJNANAC.dswenson@wearne.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I could point out that Doug said "be sure to read this list Monday."

It would appear he has a lot of people doing that...!!!

Darrel, K0AWB

-----Original Message-----

From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU] On Behalf Of
Mike Yettsko
Sent: Monday, November 24, 2003 5:55 PM
To: Low Power Amateur Radio Discussion
Subject: Re: Monday.

> Glad Doug didn't say to hold our breath!
>
> Paul K4FB
> www.qsl.net/wf4fp

Hmm, didn't he just say wait till Monday? I mean, he didn't say anything
would happen, right?

So we waited...

1 point -> Doug

-----Original Message-----

From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU] On Behalf Of
Doug Hendricks
Sent: Friday, November 21, 2003 1:39 PM

To: Low Power Amateur Radio Discussion
Subject: Monday

Guys, be sure to read this list Monday. 72, Doug

Date: Mon, 24 Nov 2003 17:36:40 -0700
From: "NR5A" <nr5a@rap.midco.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [161813] Re: Monday.
Message-ID: <01bb01c3b2ec\$31705fe0\$3865dc18@jerry>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Thats right! It's MONDAY! ! ! ! Hello Doug! ! Well??? We want to
know the rest of the story! ! ! ! ! ! ! ! ! !

Jerry - NR5A - South Dakota!

----- Original Message -----
From: "Paul Womble" <pwomble@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Monday, November 24, 2003 3:59 PM
Subject: RE: Monday.

> Glad Doug didn't say to hold our breath!
>
> Paul K4FB
> www.qsl.net/wf4fp
>
>
>
>
> > -----Original Message-----
>
> >
> >
> > So...it's Monday...been checking the list all day...
> > 73 de dave, n9uxu
> >
> >
>
>

Date: Mon, 24 Nov 2003 19:41:19 -0500
From: sergio <sergio@village-buzz.com>
To: qrp-1@Lehigh.EDU
Subject: [161814] good bands or fixed radio?
Message-ID: <5.2.1.1.0.20031124185617.032c45f0@mail.neobright.net>
Mime-Version: 1.0
Content-Type: text/plain; x-avg-checked=avg-ok-4297768; charset=us-ascii;
format=flowed

darnit.. i hate always asking such stupid questions....

i got my soldering station (wtcpt) in today...

i decided that i needed an excuse to solder something just for a few minutes, so i decided to FINALLY make the connections between my rig and my headphones through an impedance transformer permanent.. i soldered the bundle together, and mounted it inside an old film container..

i also remeasured my counterpoise, but didn't cut yet...

the directions say that it should be 1/4 wavelength of the highest frequency you want to work.. even though i have never been on 15m, i decided to cut it for 15m, and tune for the rest..

it's in the neighborhood of 12 feet... i know this is a little long, and i will lop some off later tonight.. when i try it on 15m..

anyway, i reattached the counterpoise and to my surprise.. i turned the radio on, and the bands were totally hoppin..

i tuned up, and the system tuned perfectly.. i got the led on the zm-2 to go TOTALLY out.. this never happens on 40..

i tried to call a cq to see if it seemed like it was working, and i got answered by n3bgi right away...

we had to cut it short, since the euro stations were booming in on 41m..

but.. everything seemed like it was in tip top shape..

soooo...

did i hear so many stations cuz my radio is going better, or because the bands are doing good?

peace,

sergio

www.village-buzz.com - read my sexy blog!

www.coffee-black.com - photography....

<http://www.coffee-black.com/join.htm> <-- Join Picture of the Day!

phone ... 419 606 0557

Date: Mon, 24 Nov 2003 19:43:31 -0500

From: "Joseph Trombino Jr" <w2kj@bellsouth.net>

To: "QRP-L" <qrp-l@Lehigh.EDU>

Subject: [161815] Did I miss something???

Message-ID: <006a01c3b2ed\$28ab15c0\$220110ac@gateway.2wire.net>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Howdy Gang:

This past week Dough Hendricks, KI6DS, told us to stand-by for the "big announcement" of some kind of new kit that would be presented on Monday.

Well, today is Monday and I'm wondering if I missed the announcement???

Anybody out there know what's going on???

73, Joe W2KJ

North Carolina

I QRP, therefore, I am

Date: Mon, 24 Nov 2003 19:45:10 -0500 (EST)

From: Thom LaCosta <baltimoremd@baltimoremd.com>

To: Mike Yetsko <myetsko@insydesw.com>

Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: [161816] Re: Monday.

Message-ID: <20031124194359.R41948-100000@unix1.vhost.min.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Mon, 24 Nov 2003, Mike Yetsko wrote:

> > Glad Doug didn't say to hold our breath!
> >
> > Paul K4FB
> > www.qsl.net/wf4fp
>
> Hmm, didn't he just say wait till Monday? I mean, he didn't say anything
> would happen, right?
>
> So we waited...

Did he say Monday of which month or year?

Maybe he mis-spelled it and we were to wait for Maunday.

Thom

baltimoremd@baltimoremd.com	Thom LaCosta K3HRN Webmaster
http://www.baltimoremd.com/	Baltimore's Home Page
http://www.baltimorehon.com/	Home of the Baltimore Lexicon
http://www.zerobeat.net	Home of The QRP Web Ring and DrakeList
http://www.tlchost.net	Web Hosting as low as \$3.49/month

Date: Mon, 24 Nov 2003 18:59:54 -0600
From: "Lynn Geitgey" <lgeitgey@kumc.edu>
To: <myetsko@insydesw.com>, <qrp-1@Lehigh.EDU>
Subject: [161817] Re: Monday.
Message-ID: <sfc2553e.063@kumc-smtpout.kumc.edu>
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit
Content-Disposition: inline

Hey Guy's... Give him a break, it's only 4:20 PM in California. He may not even be home yet.

QRP pileups teaches one patience - apparently E-Mail contradicts this philosophy.

Lynn Geitgey

Remote Access Specialist
University of Kansas Medical Center
Mail Stop 3024
3901 Rainbow Blvd
Kansas City, KS 66160-7171
(913)588-4683
lgeitgey@kumc.edu

>>> "Mike Yetsko" <myetsko@insydesw.com> 11/24/2003 5:54:38 PM >>>
> Glad Doug didn't say to hold our breath!
>
> Paul K4FB
> www.qsl.net/wf4fp

Hmm, didn't he just say wait till Monday? I mean, he didn't say
anything
would happen, right?

So we waited...

1 point -> Doug

Date: Mon, 24 Nov 2003 20:09:42 -0500
From: John Sielke <jsielke@pobox.com>
To: qrp-l@lehigh.edu
Subject: [161818] Re: Monday.
Message-ID: <3FC2ABD6.9070508@pobox.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

> Hmm, didn't he just say wait till Monday? I mean, he didn't say anything
> would happen, right?
>
> So we waited...
>
> 1 point -> Doug

As we also wait for:

The Norcal 30

The magnum 44

The "Super" rig that the SMK-1 was a "warmup" for.....

Ah yes, patience is a virtue....

John W2AGN

Date: Mon, 24 Nov 2003 20:12:21 -0500
From: "John J. McDonough" <wb8rcr@arrl.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [161819] Elmer 160: MPLAB IDE
Message-ID: <01a501c3b2f1\$2e01d3c0\$090044c0@BrianBoru>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Gang

For those of you who have low speed connections and may have trouble getting the entire MPLAB downloaded, our very own Steve Wells, KG4JNL, has volunteered to provide CDs to folks that need them for the cost of postage and mailer. Contact Steve directly to make arrangements.

Thank you Steve!!!

72/73 de WB8RCR <http://www.qsl.net/wb8rcr>
didileydadidah QRP-L #1446 Code Warriors #35

Date: Mon, 24 Nov 2003 18:25:38 -0700
From: "Augie Hansen" <augie.hansen@comcast.net>
To: <henryf@quartz.gly.fsu.edu>,
 "'Low Power Amateur Radio Discussion'" <qrp-l@lehigh.edu>
Subject: [161820] RE: Kenwood TS-480
Message-ID: <200311250125.hAP1Pc0V010339@rain.CC.Lehigh.EDU>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="us-ascii"
Content-Transfer-Encoding: 7bit

Hi Henry,

-----Original Message-----

[snip]

I really like the box having a built in 232 port so you will not need external level conversion. Someone should have done it sooner.

Actually Ten-Tec did it years ago. I bought an Omni V back in the late 1980s and it was equipped with an RS-232 port. Many other Ten-Tec rigs have come equipped that way or had an available option for an internal RS-232 adapter.

73, Gus Hansen / KB0YH

Email: KB0YH@arrl.net

Date: Mon, 24 Nov 2003 17:40:02 -0800
From: "Lee Hopper" <leehopp@msn.com>
To: <sergio@village-buzz.com>,
"Posting to the list QRP-L" <qrp-l@Lehigh.EDU>
Subject: [161821] Re: good bands or fixed radio?
Message-ID: <BAY4-DAV80TLwSUz3e80000701f@hotmail.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

No, no, sergio! It's 1/4 wavelength of the *lowest* frequency you want to work.

Peace -

Lee, NB7F

sergio surged:

> the directions say that it should be 1/4 wavelength of the highest
> frequency you want to work..

Date: Mon, 24 Nov 2003 19:47:22 -0600
From: "Joe Martin" <km5cw@wt.net>
To: "QRP" <qrp-l@Lehigh.EDU>
Subject: [161822] Re: Elmer 160: Time to get to work

Message-ID: <01ff01c3b2f6\$184d6490\$2e4cd6d0@JoesHome1>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

The Elmer 160 has been in the works for a while now, it's great to see it getting off the ground.
If you don't have it you will need the latest version of MPLAB,
<http://www.microchip.com/1010/pline/tools/picmicro/devenv/mplabi/mplab6/10849/index.htm>
this is the download page, v6.04 is ready for download now, I know because I am downloading it right now (g). It's going to take a few min without a dsl hook up, but what the hey.
So what are you waiting for, let's learn how to deal with PICs ?
73 de KM5CW, Joe
ARCI #11368 FP#-697 FISTS#4217
GRID EM13kf FtWorth,Tx
32:49:31N 97:06:13W
(<http://web.wt.net/~km5cw>)

-----| Virus Scanned by Symantec |-----

----- Original Message -----
From: "Henry Freedenberg" <henryf@quartz.gly.fsu.edu>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Monday, November 24, 2003 6:27 PM
Subject: Re: Elmer 160: Time to get to work

> If this is the project Doug was promoting...congratulations. It really looks great.
>
> I want one. How much and where do I send the \$\$?
>
> Looking forward to participating
>
> Henry
>
> On 23 Nov 2003 at 16:13, John J. McDonough wrote:
>
> > FINALLY!
>
>

Date: Mon, 24 Nov 2003 20:54:19 -0500

From: "NZ8J" <nz8j@woh.rr.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [161823] Re: Argonaut 509 w/accessories - SOLD
Message-ID: <002601c3b2f7\$0a7df900\$6400a8c0@NZ8J>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Thanks to all who responded, the radio has been sold

73

Tim

NZ8J

----- Original Message -----

From: "NZ8J" <nz8j@woh.rr.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Monday, November 24, 2003 6:22 PM
Subject: FS/T: Argonaut 509 w/accessories

> I have the following for sale or trade:

>

> 509 Argonaut (late serial number {3592} with the larger main tuning knob)

> 210 Power supply

> 208 CW Filter

> 206 Calibrator

> Shure 450 Desk Mic (wired for the 509)

> 607 TT paddles with K1EL keyer built in

>

> Everything works excellent, PT0 is good and doesn't slip, have original

> manuals for radio, supply, calibrator and cw filter and also have all

> interconnecting cables. Just hook up an antenna and you're ready to
operate.

>

> Condition on everything is an 8+. The only negative is that someone
replaced

> the small knobs with non-stock knobs, they do not look bad and look close
to

> stock, but they are not stock. I can send pictures for those interested. I

> called Ten Tec today and was told the guy who would know for sure if they

> had them was on vacation this week, but he thought there were some of the

> small knobs available.

>

> Asking \$235 shipped and insured in the lower 48 for the entire package or

> would consider working out a trade for a Triton, Omni, Delta, or Argosy. I

> want something with a little more output. (the only qrp rig I would

> consider is a K1) Let me know what you might have to trade if you're

> interested.

> Thanks
> Tim
> NZ8J
>
>
>

Date: Mon, 24 Nov 2003 20:55:56 -0500
From: "Brian Riley (maillist)" <n1bq_list@wulfden.org>
To: "John J. McDonough" <wb8rcr@arrl.net>,
 Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [161824] Re: Elmer 160: MPLAB IDE
Message-ID: <BBE820DC.19FC1%n1bq_list@wulfden.org>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

I went over to my buddy's house last week and downloaded 6.30 and 6.32,
which one should I use also anyone needing MPLAB for Elmer 160 can also
email me and I can make CDs also ...

On 11/24/03 8:12 PM, "John J. McDonough" <wb8rcr@arrl.net> wrote:

> Gang
>
> For those of you who have low speed connections and may have trouble getting
> the entire MPLAB downloaded, our very own Steve Wells, KG4JNL, has
> volunteered to provide CDs to folks that need them for the cost of postage
> and mailer. Contact Steve directly to make arrangements.
>
> Thank you Steve!!!
>
> 72/73 de WB8RCR <http://www.qsl.net/wb8rcr>
> didileydadidah QRP-L #1446 Code Warriors #35
>
>
>

Date: Mon, 24 Nov 2003 20:56:47 -0500

From: "Brian Riley (maillist)" <n1bq_list@wulfden.org>
To: <henryf@quartz.gly.fsu.edu>,
Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [161825] Re: Kenwood TS-480
Message-ID: <BBE8210F.19FC5%n1bq_list@wulfden.org>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

HR0 has it for \$1370

On 11/24/03 7:27 PM, "Henry Freedenberg" <henryf@quartz.gly.fsu.edu> wrote:

> Well I guess by now everyone has seen the new Kenwood 480.
>
> Anyone know what the street price will be? Is this supposed to compete with
> the 718?, 706? 746? ft-100? Is this a TS-50 replacement? When will it be
> available? I really like the box having a built in 232 port so you will not
> need external level conversion. Someone should have done it sooner.
>
> Henry
>

Date: Mon, 24 Nov 2003 18:56:09 -0700 (MST)
From: Karl Larsen <k5di@zianet.com>
To: Lynn Geitgey <lgeitgey@kumc.edu>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [161826] Re: Monday.
Message-ID: <Pine.LNX.4.44.0311241853160.4680-1000000@bucket.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Mon, 24 Nov 2003, Lynn Geitgey wrote:

> Hey Guy's... Give him a break, it's only 4:20 PM in California. He may
> not even be home yet.

Yes Doug is a school teacher and right now it's going on 6 PM at his house. My guess is he needs to do some family things and have dinner and then check his email and then, maybe tell you what it is. I already know.

--

- Karl Larsen k5di Las Cruces, NM Az ScQRPions -

Date: Mon, 24 Nov 2003 17:55:52 -0800
From: "Dennis W. Farrell" <dennisw.farrell@verizon.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [161827] RE: Monday.
Message-ID: <5.2.1.1.0.20031124175443.02edf418@incoming.verizon.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

I guess nobody has gone to the American QRP Club site ??

<http://www.amqrp.org/kits/micro908/index.html>

-- dwf

At 11/24/2003 14:59, Paul Womble wrote:
>Glad Doug didn't say to hold our breath!
>
>Paul K4FB
>www.qsl.net/wf4fp
>
>
>
>
> > -----Original Message-----
>
> >
> >
> > So...it's Monday...been checking the list all day...
> > 73 de dave, n9uxu
> >
> >

Date: Mon, 24 Nov 2003 18:26:55 -0800
From: "richqrp" <richqrp@cox.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [161828] Re: Monday.
Message-ID: <004601c3b2fb\$97ff1d00\$c1770744@wd6fddstssz5sg>
MIME-Version: 1.0
Content-Type: text/plain;

charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

But I recall, Doug said someone else would be doing the listing ??
Rich..

----- Original Message -----

From: "NR5A" <nr5a@rap.midco.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Monday, November 24, 2003 4:36 PM
Subject: Re: Monday.

> Thats right! It's MONDAY! ! ! ! Hello Doug! ! Well??? We want to
> know the rest of the story! ! ! ! ! ! ! ! !

>
> Jerry - NR5A - South Dakota!

>
> ----- Original Message -----

> From: "Paul Womble" <pwomble@earthlink.net>
> To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
> Sent: Monday, November 24, 2003 3:59 PM
> Subject: RE: Monday.

>
>
> > Glad Doug didn't say to hold our breath!

> >
> > Paul K4FB
> > www.qsl.net/wf4fp

> >
> >
> >
> >
> >
> > > -----Original Message-----

> >
> > >
> > >
> > > So...it's Monday...been checking the list all day...
> > > 73 de dave, n9uxu

> > >
> > >
> >
> >
>

Date: Mon, 24 Nov 2003 21:28:58 -0500
From: Michael Neverdosky <mikenever@earthlink.net>

To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [161829] Re: Monday.
Message-ID: <3FC2BE6A.D46E73FE@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Besides, he didn't say what monday.
:-)

michael N6CHV

Lynn Geitgey wrote:

>
> Hey Guy's... Give him a break, it's only 4:20 PM in California. He may
> not even be home yet.
>
> QRP pileups teaches one patience - apparently E-Mail contradicts this
> philosophy.
>

Date: Mon, 24 Nov 2003 21:42:12 -0500
From: "Michael Bower N4NMR" <bowerm@ix.netcom.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [161830] RE: Did I miss something???
Message-ID: <ODE0IKLMAJFGCNMOGAGICEBOEBAA.bowerm@ix.netcom.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Who said anything about an announcement. He just said to read the list on Monday. But then we should be reading the list everyday.

1 More for Doug.

> -----Original Message-----
> From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU]On Behalf Of
> Joseph Trombino Jr
> Sent: Monday, November 24, 2003 7:44 PM
> To: Low Power Amateur Radio Discussion
> Subject: Did I miss something???
>
>

> Howdy Gang:
>
> This past week Dough Hendricks, KI6DS, told us to stand-by for the "big
> announcement" of some kind of new kit that would be presented on Monday.
>
> Well, today is Monday and I'm wondering if I missed the announcement???
>
> Anybody out there know what's going on???

73, Joe W2KJ
North Carolina
I QRP, therefore, I am

Date: Mon, 24 Nov 2003 21:48:10 -0500
From: "Michael Bower N4NMR" <bowerm@ix.netcom.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [161831] RE: Monday.
Message-ID: <ODE0IKLMAJFGCNMOGAGIMEBPEBAA.bowerm@ix.netcom.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="US-ASCII"
Content-Transfer-Encoding: 7bit

He's probably also watching this list and watching us make fools of
ourselves. he's probably sitting back just laughing away.

> -----Original Message-----
> From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU]On Behalf Of
> Karl Larsen
> Sent: Monday, November 24, 2003 8:56 PM
> To: Low Power Amateur Radio Discussion
> Subject: Re: Monday.
>
>
> On Mon, 24 Nov 2003, Lynn Geitgey wrote:
>
> > Hey Guy's... Give him a break, it's only 4:20 PM in California. He may
> > not even be home yet.
>

> Yes Doug is a school teacher and right now it's going on 6 PM at
> his house. My guess is he needs to do some family things and have dinner
> and then check his email and then, maybe tell you what it is. I already
> know.

>

> --

>

> - Karl Larsen k5di Las Cruces,NM Az ScQRPions -

>

>

Date: Mon, 24 Nov 2003 19:28:36 -0800 (PST)
From: Barry N1EU <n1eu@yahoo.com>
To: qrp-l@lehigh.edu
Subject: [161832] MAX 232 or other TTL-RS232 Interface
Message-ID: <20031125032836.84885.qmail@web13204.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Was wondering if anyone happens to know if Radio Shack
sells the MAX 232 chip (RS232 driver/receiver)? Or
does anyone know a simpler (and reliable) circuit to
provide TTL to RS232 translation? Trying to interface
a Kenwood rig's control port to a pc.

Thanks & 72/73,
Barry N1EU

Do you Yahoo!?
Free Pop-Up Blocker - Get it now
<http://companion.yahoo.com/>

Date: Mon, 24 Nov 2003 22:42:14 -0500
From: "Ron Polityka" <wb3aal@verizon.net>
To: ".QRP-L" <qrp-l@Lehigh.EDU>
Subject: [161833] 2004 QRP Contest Calendar Now Shipping
Message-ID: <001d01c3b306\$1e35e4d0\$0200a8c0@WB3AAL>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello,

Tuesday, Nov. 25, at 22:00 UTC I will be placing the first 50 calendars in the mail. On Wednesday, Nov. 26, at 22:00 UTC I will be placing the remaining 20 calendars in the mail.

All calendars that are paid for will be shipped by Wednesday evening.

Hope you enjoy. This was a real tough one to make this year with the father in law having open heart surgery and the mother in law died while visiting him in the hospital.

Thanks to all those who did purchased the calendar, let me know what you think in a private e-mail.

If you did not purchase one yet, there are plenty remaining. Check out www.n3epa.org for more details.

72 and Thanks,
Ron Polityka
WB3AAL
www.n3epa.org/

Date: Mon, 24 Nov 2003 22:57:57 -0500
From: "Jason Hsu" <jhs001@heronetwork.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [161834] How long does it take to destroy a part with high power?
Message-ID: <00bf01c3b308\$51c23c20\$64923144@aolidsl.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I'm looking at the designs for the MFJ-1025 and ANC-4 products.

The URLs are:
<http://www.mfjenterprises.com/products.php?prodid=MFJ-1025>
<http://www.timewave.com/anc4.html>

The data sheets for both of these products contain circuit schematics.

I understand the idea of a T/R switch and the basics of how it works: It detects large RF voltages, rectifies them, and switches a relay from

receive mode to transmit mode so that the RF goes straight to the antenna and avoids burning up the sensitive electronic components in the receiver (or the noise cancellation circuits, in the case of the MFJ-1025 and ANC-4).

However, it takes time (a few msec) for the T/R switch to respond, and the fragile electronic components used in receive mode will be subject to the large RF voltages/currents during this time.

Just how much time does it take to destroy an electronic part? In the ANC-4, there is a voltage divider with two 1W 51-ohm resistors that connect to the transceiver. At 100V (0-peak, RF) of transmission (which translates into 200W from the transmitter, which the ANC-4 is supposed to handle), I calculate that these two 51-ohm resistors will be subject to 50V apiece, or 50W. That's 50 times their rated power handling ability.

Can someone shed some light for me on just how long an electronic component can withstand more than its rated capacity? I'm sure that 100V for 1 picosecond is OK but 100V for 1 second is not. But what about exposure times in between these extremes?

Jason Hsu, AG4DG
personal AAAATTTT jasonhsu.com

Date: Mon, 24 Nov 2003 23:01:35 -0500
From: David J Adams <david@theadamsclan.com>
To: dennisw.farrell@verizon.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [161835] Re: Monday.
Message-ID: <3FC2D41F.2040905@theadamsclan.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

That's been out for some time now.

Dave

Dennis W. Farrell wrote:

> I guess nobody has gone to the American QRP Club site ??
>
> <http://www.amqrp.org/kits/micro908/index.html>
>
> -- dwf
>

>
> At 11/24/2003 14:59, Paul Womble wrote:
>
>> Glad Doug didn't say to hold our breath!
>>
>> Paul K4FB
>> www.qsl.net/wf4fp
>>
>>
>>
>>
>> > -----Original Message-----
>>
>> >
>> >
>> > So...it's Monday...been checking the list all day...
>> > 73 de dave, n9uxu
>> >
>> >
>
>
>
>
>
>
>

Date: Mon, 24 Nov 2003 22:05:03 -0600 (CST)
From: Dale Botkin <dale@botkin.org>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [161836] Re: MAX 232 or other TTL-RS232 Interface
Message-ID: <Pine.LNX.4.33.0311242156180.31720-100000@madmax.botkin.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Mon, 24 Nov 2003, Barry N1EU wrote:

> Was wondering if anyone happens to know if Radio Shack
> sells the MAX 232 chip (RS232 driver/receiver)? Or
> does anyone know a simpler (and reliable) circuit to
> provide TTL to RS232 translation? Trying to interface
> a Kenwood rig's control port to a pc.

For some unfathomable reason, I can only find the ancient, honorable, and completely obsolete 1488 and 1489 for sale at Radio Shack.

I'd suggest a MAX203 or 233. 5V power supply, needs no external caps. There are also scads of references on teh Net and elsewhere for using a couple of jelly-bean switching transistors (2N222, 2N3904, etc) to do the level conversion. I found the MAX233 at JDR, Jameco, Digikey and BG Micro before I quit looking.

73,

Dale - N0XAS

--

It's a thankless job, but I've got a lot of Karma to burn off. PicoKeyer Analog with pot speed control now available! Or add memory and more to your Rock-Mite -- <http://www.hamgadgets.com>

Date: Mon, 24 Nov 2003 23:03:29 -0500
From: "Larry Przyborowski" <k3peg@comcast.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [161837] Re: Monday.
Message-ID: <003f01c3b309\$d4924860\$6401a8c0@K3PEGMAIN>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

It's gonna be Tuesday soon here on the "right" coast...

73, Larry - K3PEG

Date: Mon, 24 Nov 2003 23:35:05 -0500 (EST)
From: "Paul, VE1DY" <ve1dy@myway.com>
To: qrp-1@Lehigh.EDU
Subject: [161838] Re: Monday - Already Tuesday Here
Message-ID: <20031125043505.BD927395D@mprdmxin.myway.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

It's already Tuesday here! Guess we live too far east. I'll have to set my clock to Doug's time!

72, Paul - VE1DY

>It's gonna be Tuesday soon here on the "right" coast...

73, Larry -
>K3PEG

No banners. No pop-ups. No kidding.
Introducing My Way - <http://www.myway.com>

Date: Mon, 24 Nov 2003 22:30:35 -0600
From: "Jerry Ford" <benlightnd13@mchsi.com>
To: "qrp-l" <qrp-l@lehigh.edu>, "FPigs" <fpqrp-l@mpna.com>
Subject: [161839] Any Piggies up late
Message-ID: <016e01c3b30c\$df619680\$4a78da0c@mchsi.com>

Lots of signals from the left coast coming in right now on 7.044 + -

Anybody want to give it a shot?

I'm hanging in the usual spot 7.044 and it's now 0446z

72 oo Jerry N0JRN
FP # 546, 4SQRP, ARS # 923, ARCI # 11049, ARRL,
Springfield, Mo. MP + #8
<http://home.mchsi.com/~n0jrn>

Date: Mon, 24 Nov 2003 23:19:52 -0600
From: "George, W5YR" <w5yr@att.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [161840] MFJ 259B
Message-ID: <03b101c3b314\$015d85d0\$0401a8c0@PS>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

The MFJ 259B is a very popular and commonly used "antenna analyzer" and/or complex impedance meter, among other duties.

Frank Witt, AI1H, has used the 259B extensively in studying the losses in

antenna tuners and baluns. His articles on this have appeared in QST and QEX.

The purpose of this note is to pass along the following:

Frank indicated that the Return Loss calculation in the 259B, made by the internal microprocessor from the rho (reflection coefficient) measurement, was in error. His remarks related to software version 2.02 for the 259B.

I recently traded for a mint 259B that shows a software version number of 2.21.

Checking the measured value of rho for a number of loads and comparing the 259B Return Loss readout with the results of manual calculation of RL from rho, it appears that the calculation error in the 259B has been corrected in this software version.

In every instance, the RL value was correct according to the rho value to two digits. It should be noted that the algorithm used by the 259B only truncates the actual value to the two most significant digits. It does not round the value.

However, considering the overall accuracy inherent in the 259B, the truncated values are essentially as useful as would be the properly rounded values.

Although I have used an AEA CIA-HF analyzer for several years, I now find that unless I need plots of SWR, R, X, Z, etc. vs. frequency, the greater computing speed and the meters on the 259B make it the more useful instrument.

73/72, George

Amateur Radio W5YR - the Yellow Rose of Texas

Fairview, TX 30 mi NE of Dallas in Collin county EM13QE

"Starting the 58th year and it just keeps getting better!"

w5yr@att.net

Date: Tue, 25 Nov 2003 01:12:32 -0500

From: Richard Lourette <lourette@frontiernet.net>

To: qrp-1@Lehigh.EDU

Subject: [161841] Re: Z-11 Discontinued
Message-ID: <5.1.1.6.0.20031125011143.028ca380@pop3.frontiernet.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Looks great. Too bad it is not offered as a kit.

Rich

--

Richard Lourette
lourette@frontiernet.net

Date: Tue, 25 Nov 2003 00:57:08 -0600
From: "Stuart Rohre" <rohre@arlut.utexas.edu>
To: "carl seyersdahl" <carlseye@tampabay.rr.com>, <qrp-1@Lehigh.EDU>
Subject: [161842] re: cw issue CQ magazine(Dec.) has interesting pieces
Message-ID: <000301c3b321\$58161240\$4e100a0a@rohredt2000>

I invite all to read the piece in Dec. CQ magazine by the NVEC committee (which authored the CW test change FCC filing.) They are all CW ops, "old" Extra Class, (they took CW exams from FCC) and they make a good case for moving on to preserve amateur radio; indeed to save it from itself.

BTW, the test pools for Extra now, are larger than ever. Not only do they cover the basics of electronics, but a bit of astrophysics in satellite questions, circuit analysis which is in Senior EE classes of college, and MANY advanced topics which were not on the original Extra Class exams. They cover that content, and effectively answer those who seek a "filter" against "riff raff". It is time well spent to read their piece, and may open some eyes. Worth the price of CQ issue for that one piece, but there are some interesting items like the 160m antenna as well.

-Stuart

K5KVH

Date: Tue, 25 Nov 2003 01:18:55 -0600
From: "Stuart Rohre" <rohre@arlut.utexas.edu>
To: <qrp-1@Lehigh.EDU>
Subject: [161843] Folks having Earthlink Spam Blocker, and Earthlink ISP should not expect direct replies to queries
Message-ID: <001b01c3b324\$74044fa0\$4e100a0a@rohredt2000>

I answered a fellow ham's question and had to endure extra email answering to a spam blocking system? Why ask a question without indicating you cannot get direct email from anyone? Sheeesh!

-Stuart

K5KVH

Date: Tue, 25 Nov 2003 05:35:11 -0500
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <n1eu@yahoo.com>,
"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [161844] Re: MAX 232 or other TTL-RS232 Interface
Message-ID: <006f01c3b33f\$d02fa200\$0200a8c0@charter.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> Was wondering if anyone happens to know if Radio Shack
> sells the MAX 232 chip (RS232 driver/receiver)? Or
> does anyone know a simpler (and reliable) circuit to
> provide TTL to RS232 translation? Trying to interface
> a Kenwood rig's control port to a pc.
>
> Thanks & 72/73,
> Barry N1EU

I use the HIN202 part in a lot of my stuff. It's almost a 'generic' xxx202 dual receiver/transmitter pair. Available DIP as well as surface mount.

Once catch. While it only requires .1uf caps for ALL the caps in the circuit, the SMT part is slightly different. The DIP part you can 'ground' the one cap on the +V pump to either ground or to +5, but on the SMT part, it MUST be hooked to +5, otherwise the chip won't reliably start. I made up a prototype with the cap to ground and the design worked fine in DIP parts, but failed almost 90% of the time in SMT until I found the problem. (Which was compounded by an older circuit example that showed the part to ground!)

I'm pretty sure you can get the parts from DigiKey or Mouser. I'd have to check though, as I haven't bought DIP parts in a while.

Mike

Date: Tue, 25 Nov 2003 05:50:12 -0500
From: "John Huffman" <hjohnc@core.com>
To: <adventureradiosociety-announcements@mailman.qth.net>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [161845] December Spartan Sprint Announcement
Message-ID: <003d01c3b341\$e79f2a80\$8aac59cf@jhuffmanlt>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Spartan Sprint Contest Monday -

Here's a great way to work off that turkey overload. Slim down the rig and do a Sprint! A Spartan Sprint that is...

The December Spartan Sprint will be held on Monday, December 1, 2003 (which is our standard date--the first Monday of the month). It's two hours of fun as you contact other QRP CW stations on 80, 40, 20, 15, and/or 10 meters. The contest starts at 9 pm EST, 8 pm CST, 7 pm MST, and 6 pm PST. That's 0200-0400 UTC.

The Spartan Sprint exchange is RST - State - Power (e.g. 559 MI 5W).
Contest details and rules are below.

In your Soapbox comments after the contest, start by listing your radio and antenna. We think everyone would be interested in this information.

With winter coming, it's a lot tougher to be outside, but we will continue our special recognition for those who operate outdoors. If you operate outdoors, please note it in your Soapbox comments after the contest.

If it's portable and outdoors, it's Adventure Radio!

NOTE - The deadline for logs is noon on Wednesday, Pacific Time.

The web site is www.ARSqrp.com and you'll find the autolog there. The autolog page is www.ARSqrp.com/ars/ss_log.html
We've made a few changes there to clarify what information goes in each box.

Good luck on Monday!

Contest Rule Summary -

You may operate on any one or more of five bands--80, 40, 20, 15, and 10 meters. The frequencies will be 3560+- kHz, 7040 kHz+-, 14060 kHz+-, 21060 kHz+-, and 28060 kHz+-.

We commend the winners in two categories--overall points (the Tubby Division), and points per pound (the Skinny Division). We show everyone's score in both categories.

The exchange RST, SPC (state, province or country) and power output.

If you choose to call CQ, use the format "CQ SP".

You can take credit for working the same station on a second, third, or fourth band.

After the contest, we invite you to use our autolog, which is part of the ARS Sojourner. Just go to www.ARSqrp.com/ars/ss_log.html

"Station Weight" is defined as the combined weight of all transmitters, receivers, keys, keyers, batteries, and power supplies used during the Sprint. The specifics of our weight rules for the Skinny Division and several examples can be found at:

www.ARSqrp.com/ars/pages/spartan_sprints/ss_weight_rules_new.html

We publish results for each Spartan Sprint on the Thursday following the Sprint. This may be the world's quickest contest reporting! Please send us your log as soon as possible, but in no event later than Wednesday at noon.

73 de NA8M
John
Contest Manager

Date: Tue, 25 Nov 2003 06:46:03 -0500 (Eastern Standard Time)
From: "Pastor-kc1di" <elbc2@gwi.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [161846] Auto Tuners
Message-ID: <3FC340FB.000003.02488@DOR>
MIME-Version: 1.0
Content-Type: Text/Plain

Content-Transfer-Encoding: quoted-printable

Just wondering if anyone on the list has tried out either the new LDG z10=0
or the new MFJ Auto tuners? If so would you mind letting me know your
thought on either one before I purchase.=0D
Thanks =0D
Dave kc1di =0D
=20

Date: Tue, 25 Nov 2003 07:44:45 -0500
From: David Hinerman <WD8CIV@worldnet.att.net>
To: qrp-l@lehigh.edu
Subject: [161847] Re: MAX 232 or other TTL-RS232 Interface
Message-ID: <5.1.1.6.1.20031125073739.00b24e70@postoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 07:28 PM 11/24/2003 -0800, you wrote:
>Was wondering if anyone happens to know if Radio Shack
>sells the MAX 232 chip (RS232 driver/receiver)? Or
>does anyone know a simpler (and reliable) circuit to
>provide TTL to RS232 translation? Trying to interface
>a Kenwood rig's control port to a pc.

Barry,

I'm pretty sure the Shack doesn't sell MAX232 chips, but here's a circuit I
lifted from an old Intel microcontroller handbook:

<<http://home.att.net/~wd8civ/rs232.html>>

It uses two transistors (NPN and PNP general purpose), a couple of diodes,
a handful of 1.8k resistors, and a 10 uF cap. I used to build them on DIP
headers before the Maxim chips became available.

It uses the cap to store a negative charge from the computer's RS-232
Transmit signal, so it doesn't need a negative supply - just +5VDC. As long
as the computer and rig aren't both transmitting simultaneously, it works
well. You might have difficulty with a laptop serial ports, though - some
of them don't quite meet the RS-232 voltage specs.

Dave

Dave Hinerman

WD8CIV@att.net

Date: Tue, 25 Nov 2003 07:54:00 -0500
From: kwiki@gdls.com
To: qrp-1@Lehigh.EDU
Subject: [161848] Michigan QRP Net
Message-ID: <0F1EEF4831.BFC71252-0N85256DE9.0046C325@gdls.com>
MIME-Version: 1.0
Content-type: text/plain; charset=us-ascii

Real poor conditions last week. Wonder how the bands will be tonight.

S R
K8CV 599 ROYAL OAK,MI WALT
W2SH 449 MILLINGTON,NJ CHARLES
WS3K LEWISTOWN,PA DON MI

The Michigan QRP net meets each Tuesday night at 9:00 PM Eastern time on 3.535 MHz. All Hams are welcome.

Ed AB8DF Waterford, MI

Date: Tue, 25 Nov 2003 05:59:49 -0700 (MST)
From: Karl Larsen <k5di@zianet.com>
To: "George, W5YR" <w5yr@att.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [161849] Re: MFJ 259B
Message-ID: <Pine.LNX.4.44.0311250547080.4682-100000@bucket.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Mon, 24 Nov 2003, George, W5YR wrote:

> The MFJ 259B is a very popular and commonly used "antenna analyzer" and/or
> complex impedance meter, among other duties.

Hi George I have the Vectronics VEC-584B which is related to the MFJ 259B (made by Mr. Ju's company) and it's my main meter. The last thing I have done is set up my mobile in the new car. The antenna analyser was what ANSWERED all the questions.

I will not leave for Field Day unless I have it.

>
> Frank Witt, AI1H, has used the 259B extensively in studying the losses in
> antenna tuners and baluns. His articles on this have appeared in QST and
> QEX.

I used it to measure losses in the MFJ tuners. It is the PERFECT
source of low power RF at many frequencies. Mine are not published in
QST. But you can see them on my web site.

>
> The purpose of this note is to pass along the following:
>
> Frank indicated that the Return Loss calculation in the 259B, made by the
> internal microprocessor from the rho (reflection coefficient) measurement,
> was in error. His remarks related to software version 2.02 for the 259B.

I have never made a reflection coefficient measurement.

> I recently traded for a mint 259B that shows a software version number of
> 2.21.

Lucky you!

> Checking the measured value of rho for a number of loads and comparing the
> 259B Return Loss readout with the results of manual calculation of RL from
> rho, it appears that the calculation error in the 259B has been corrected in
> this software version.

>
George if you call MFJ on the phone and say you want to discuss
a problem with a 259B you will get connected with the guy who designed
it. He will be pleased to help you with your search.

> In every instance, the RL value was correct according to the rho value to
> two digits. It should be noted that the algorithm used by the 259B only
> truncates the actual value to the two most significant digits. It does not
> round the value.

Small computer.

>
> However, considering the overall accuracy inherent in the 259B, the
> truncated values are essentially as useful as would be the properly rounded
> values.

Yes, your getting 10-20% error in measurements, but who cares?

This is a heck of a lot closer than my guess!

> Although I have used an AEA CIA-HF analyzer for several years, I now find
> that unless I need plots of SWR, R, X , Z, etc. vs. frequency, the greater
> computing speed and the meters on the 259B make it the more useful
> instrument.

>

> 73/72, George

> Amateur Radio W5YR - the Yellow Rose of Texas

> Fairview, TX 30 mi NE of Dallas in Collin county EM13QE

> "Starting the 58th year and it just keeps getting better!"

> w5yr@att.net

>

>

>

>

>

>

>

>

--

- Karl Larsen k5di Las Cruces,NM Az ScQRPions -

Date: Tue, 25 Nov 2003 08:11:58 -0500

From: John Sielke <jsielke@pobox.com>

To: qrp-l@lehigh.edu

Subject: [161850] RE: Monday.

Message-ID: <3FC3551E.2000805@pobox.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii; format=flowed

Content-Transfer-Encoding: 7bit

> I guess nobody has gone to the American QRP Club site ??

>

> <http://www.amqrp.org/kits/micro908/index.html>

>

> -- dwf

>

>

Old news. That page has been there since last month.

John W2AGN

Date: Tue, 25 Nov 2003 08:09:19 -0500
From: "Michael C. Boatright" <ko4wx@mindspring.com>
To: qrp-l@lehigh.edu
Cc: "Stuart Rohre" <rohre@arlut.utexas.edu>
Subject: [161851] Re: Folks having Earthlink Spam Blocker, and Earthlink ISP
should not expect direct replies to queries
Message-ID: <5.0.2.1.2.20031125080204.02fe6788@pop.mindspring.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Stuart,

It is because spam bots search things like the QRP-L archive on the web, etc. The "do'ers" in this hobby tend to have their addresses pop up a lot and at least for me personally, the Earthlink spam blocker, albeit painful, is the lesser of the two evils. I get hundreds of spam messages a week, and have enough trouble keeping up with "good" email ("where is my summer issue?) related to QRP, ARCI, QQ and ARES (I'm an SEC and ARECC mentor).

Sorry if it inconvenienced you, but I do appreciate the message related to the meter. FYI, thanks to everyone for responding to me question about the VU meter. The ARRL Handbook has good information on testing the internal resistance of a meter. Even though it might look otherwise, I'm basically lazy and was hoping someone might have an old Lafayette catalog or something like that...

72 de Mike, K04WX
Michael C. Boatright

Date: Tue, 25 Nov 2003 08:17:56 -0500
From: John Sielke <jsielke@pobox.com>
To: qrp-l@lehigh.edu
Subject: [161852] Re: Monday.
Message-ID: <3FC35684.6050405@pobox.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

> Yes Doug is a school teacher and right now it's going on 6 PM at
> his house. My guess is he needs to do some family things and have dinner
> and then check his email and then, maybe tell you what it is. I already

> know.
>

I think it's really interesting that this information is shared with folks out SWest, like Karl, while the rest are kept in the dark.

Waiting to see the price..."Slightly higher EAST of the Rockies..." ??

John W2AGN (Obviously, not of the "in" crowd)

Date: Tue, 25 Nov 2003 08:25:01 -0500
From: "Michael C. Boatright" <ko4wx@mindspring.com>
To: qrp-l@lehigh.edu
Cc: jhs001@heronetwork.com
Subject: [161853] Re: How long does it take to destroy a part with high power
Message-ID: <5.0.2.1.2.20031125080946.02fdb0f0@pop.mindspring.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Jason,

It all depends on how much smoke the part has inside it. As has been discussed on this list before, all electronic parts have smoke inside them. That's what actually makes them work. Let the smoke out and they don't work any more.

Seriously, it really does depend on the part, and on the parameter (max Vce, heat dissipation, cold, hot, frequency, etc.) that is being exceeded. Some parts are quite tolerant of exceeding parameters (it's harder than hell to kill an IRF510), while others "pop" pretty quickly. The other night, I was experimenting with using a voltage divider to provide positive and negative rails for an op amp circuit I want to build. Was using a 25.2VAC R\$ transformer, feeding a bridge rectifier (e.g. full-wave rectifier). $25.2\text{VAC} \times 1.4 = 35.3\text{V}$. 35.3 rail to rail gives 17.6V rail to ground. Didn't think, and used two 100uF 16V electrolytics as filter caps across each voltage divider diode.

No matter how many times I've smoked a part, the sound of an electrolytic always seems to scare the fool out of me (maybe because I'm usually just plugging something in, or flipping the on switch). Man, those babies blew, and spewed their electrolytic stuff ALL over the circuit board, my bench, etc.

There is one more axiom, by the way. The more parts you smoke, the more you learn about practical radio theory and radio construction practice. Rick Cambell, KK7B, "Dr. Direct Conversion Receiver" once told

me about the shoe boxes full of circuits that didn't work! Another friend once said, if you're going to screw up, screw up boldly! One of my elmer, W3IRZ's (SK) favorite statements was "I don't know, try it and see!"

If you smoke those resistors, it'll cost < \$1 to replace them from Mouser, DigiKey, etc. But you'll get WAY more than your buck's worth in education in the process!

72 de Mike, K04WX

PS--I highly recommend keeping a fire extinguisher in your ham shack...I do!
Michael C. Boatright

Date: Tue, 25 Nov 2003 06:06:40 -0800 (PST)
From: Lloyd Lachow <llachow@yahoo.com>
To: List Elecraft <elecraft@mailman.qth.net>,
a low-energy group <qrp-l@lehigh.edu>,
Cc: "Li'l Piggies" <fpqrp-l@mpna.com>
Subject: [161854] more Kixie field fun!
Message-ID: <20031125140640.15131.qmail@web41007.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

I haven't had much time to play with Kixie, but this past weekend the family took a trip to Ocean City, Maryland, for some r&r, so I threw old #11 into a small insulated lunch pack with her accoutrements, just in case.

Our room, unfortunately, was only on the third floor, facing not the sea but the parking lot. I tossed a 42' wire out the door, over the balcony and into a convenient palm tree, and snaked a 16' rf ground along the floor. It was an enjoyable alternative to reading in bed, but nobody, seemingly, heard me with my 1.5 W and that "antenna." Good SWL, though!

The YF was, strangely, not as thoroughly excited about all this as I was, though, so she was able to provide another bit of data: the Koss "The Plug" earbuds, with their squishy earplugs and 112 dB/mW sensitivity, not only sounded very good, but allowed not the merest peep of sound out!!! Very important in small tents and/or marriages.

The next day, Saturday, saw us all going for a walk along the boardwalk. I brought the bag. Constantly on the alert for a place to set up, and a spot of time when doing so might not be viewed as too much of a social aberration, I finally was able to carpe diem: it was late in the afternoon, I was left with two of my children on the beach while others straggled back to the hotel...but nowhere to put my wire.

Then, I noticed that the fence along the dune was composed of vertical wooden slats held together by three sets of twisted wires! Using a clip lead, I loaded up the top set of twisted wires...about three feet off the ground, and several hundred yards long, maybe 100' from the water. With my rf ground on the sand and Kixie's internal Lithiums (she's bipolar) at about maybe a watt and a half, I worked Chet, K1IQI, in Monson, MA. My sig was very weak, and he gave me a 429 RST...but that was big fun!

This is my future: Travels with Kixie! Loading up all that can be loaded, and maybe some things that shouldn't...

ese,

LL

=====

73, 72 es oo, Lloyd, K3ESE - Reisterstown, Maryland
KX1#11 - multiPIG+#14 - K1#379 - 20/40M RockMites
EDZ - Longwahr - Begali Magnetic Classic Paddles
ARRL - ARS - QRParci - QCWA - FISTS #8774
FPQRP #476 - QRP-L - BORG #2
Fun = Skill / Power ! 8^D

Do you Yahoo!?
Free Pop-Up Blocker - Get it now
<http://companion.yahoo.com/>

Date: Tue, 25 Nov 2003 09:22:05 -0500
From: "David Hinerman" <WD8CIV@worldnet.att.net>
To: "qrp-l" <qrp-l@lehigh.edu>
Subject: [161855] RE: How long does it take to destroy a part with high power

Message-ID: <000201c3b35f\$80372af0\$7a032a0a@nyroc.ametek.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

> Was using a 25.2VAC R\$ transformer, feeding a bridge rectifier
> (e.g. full-wave rectifier). $25.2\text{VAC} \times 1.4 = 35.3\text{V}$. 35.3 rail to rail
> gives 17.6V rail to ground. Didn't think, and used two 100uF 16V
> electrolytics as filter caps across each voltage divider diode.
>
> No matter how many times I've smoked a part, the sound of an electrolytic
> always seems to scare the fool out of me (maybe because I'm usually just
> plugging something in, or flipping the on switch). Man, those
> babies blew,
> and spewed their electrolytic stuff ALL over the circuit board,
> my bench, etc.

Mike,

My father and I took a night course in PCB fabrication when I was in high school. The final for the class was to design and make a board for a project of our choice. Dad had taken an interest in CB at the time, and wanted a 12V power supply so he could use his radio in the house. He went the whole nine yards - bought all new parts from the Shack, including a nice vented case.

One night near the end of the course he'd completed the project and brought it in for show & tell. We were standing around the bench listening to the local truck chatter when BANG! Bits of paper clogging the vents in the case and the smell we all hate. On inspection the teacher found a filter cap that had blown. Dad had used a 16 volt cap, since the supply was using a 12 volt transformer.

The teacher explained about peak vs. RMS voltage, and that a 25 volt cap would be a better choice. When we got home Dad raided my junk box and found a 35 volt cap that fit well enough, and soldered it in.

The next week at class was show & tell again. We were listening to the chatter once more when BANG! Dad had put the new cap in backwards.

As you pointed out, thought, it's a cheap education.

Dave

Date: Tue, 25 Nov 2003 10:19:37 +0000

From: John R Kirby <n3aaz-qrp@juno.com>
To: qrp-1@Lehigh.EDU
Subject: [161856] DEC BIN HEX - Elmer-160
Message-ID: <20031125.103114.-146369.0.n3aaz-qrp@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

ooTC here and just
found a way to 'capture (remember) more of the big picture ...

Running EXCEL along-side ELMER160 Lesson ONE
I can realize the DEC BIN HEX stuff better.

EXCEL's functions like "HEX2DEC(cell)" (see HELP file for other functions)
convert number base sixteen to base ten to create a table that shows me
'the big picture (and memory map) the PIC from John's lesson discussion
giving various register locations in a new language.

EXCEL's sort capability allows me to keep running notes along side the
PIC-EL Lesson plan ...

just some FYI that helps me :>

John
N3AAZ
OOTC
FM 19 xa

The best thing to hit the internet in years - Juno SpeedBand!
Surf the web up to FIVE TIMES FASTER!
Only \$14.95/ month - visit www.juno.com to sign up today!

Date: Tue, 25 Nov 2003 09:31:44 -0500
From: Rick McKee <kc8aon@juno.com>
To: mqfd@smartgroups.com, fpqrp-1@fpqrp.com, qrp-1@Lehigh.EDU
Subject: [161857] Not trying to rush anyone !
Message-ID: <20031125.093148.10046.4.kc8aon@juno.com>

Has anyone received their Homebrewer Magazine from AMqrp yet ? I thought
it was supposed to be here sometime this month ? Not in any hurry or
trying to rush things, but my post office seems to be really slow for
some reason ! I've heard othe hams receiving their magazines up to 3
weeks before mine arrives ! And somtimes whenever I get a magazine, it

looks well used by the time it gets here ! Make one wonder about the USPS !

72/73 de: Rick McKee, KC8AON <> Willow Wood, Ohio <> Grid: EM88rl
SW-20+, SW-30+, SW-40+, Norcal BLT, Yaesu FT-7,
QRP-L #2112, FPqrp #33, AR QRP, AmQRP, Ohio Valley Fists, Zombie #718
For info on MQFD, go to: <http://www.smartgroups.com/groups/mqfd>
I'll give up CW & QRP when I'm dead ! MAYBE ! didididadidah

The best thing to hit the internet in years - Juno SpeedBand!
Surf the web up to FIVE TIMES FASTER!
Only \$14.95/ month - visit www.juno.com to sign up today!

Date: Tue, 25 Nov 2003 09:46:08 -0500
From: "David Hinerman" <WD8CIV@worldnet.att.net>
To: "qrp-l" <qrp-l@lehigh.edu>
Subject: [161858] RE: DEC BIN HEX - Elmer-160
Message-ID: <000301c3b362\$dc51c860\$7a032a0a@nyroc.ametek.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

> ooTC here and just
> found a way to 'capture (remember) more of the big picture ...
>
> Running EXCEL along-side ELMER160 Lesson ONE
> I can realize the DEC BIN HEX stuff better.
>
> EXCEL's functions like "HEX2DEC(cell)" (see HELP file for otherfunctions)
> convert number base sixteen to base ten to create a table that shows me
> 'the big picture (and memory map) the PIC from John's lesson discussion
> giving various registerlocations in a new language.
>
> EXCEL's sort capability allows me to keep running notes along side the
> PIC-EL Lesson plan ...
>
> just some FYI that helps me :>

John,

That's an excellent idea. Another thing that might help is the calculator program that comes with Windows. (It's usually with the Accessories programs.) If you use the Scientific view you can do base conversions.

Dave

Date: Tue, 25 Nov 2003 06:59:55 -0800 (PST)
From: Lloyd Lachow <llachow@yahoo.com>
To: a low-energy group <qrp-l@lehigh.edu>
Subject: [161859] Re: more Kixie field fun!
Message-ID: <20031125145955.98121.qmail@web41011.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

--- w9ya <w9ya@arrl.net> wrote:
> Hey bro;
>
> Just what is a kixie ?...I thought you meant a KX1
> the first time....now I am
> not so sure.
>
>

so sorry! Kixie is my KX1.

Do you Yahoo!?
Free Pop-Up Blocker - Get it now
<http://companion.yahoo.com/>

Date: Tue, 25 Nov 2003 07:24:46 -0800 (PST)
From: Lloyd Lachow <llachow@yahoo.com>
To: Phil Wheeler <w7ox@socal.rr.com>,
a low-energy group <qrp-l@lehigh.edu>
Subject: [161860] Re: [Elecraft] more Kixie field fun!
Message-ID: <20031125152446.37576.qmail@web41007.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

I have no basis for comparison, as I haven't used
any other SWL rcvrs. But...The KX1 is immensely

stable, and with 10Hz tuning resolution, it's way easy to zero-beat stations.

LL

--- Phil Wheeler <w7ox@socal.rr.com> wrote:

>
>
> Lloyd Lachow wrote:
>
> > Our room, unfortunately, was only on the third
> > floor, facing not the sea but the parking lot. I
> > tossed a 42' wire out the door, over the balcony
> > and
> > into a convenient palm tree, and snaked a 16' rf
> > ground along the floor. It was an enjoyable
> > alternative to reading in bed, but nobody,
> > seemingly,
> > heard me with my 1.5 W and that "antenna." Good
> SWL,
> > though!
> >
>
> Lloyd,
>
> re SWL: How does the KX1 compare to a consumer-type
> SWBC receiver?
> Still building mine so I have yet to be able to make
> that assessment.
>
> 73, Phil
>
>

Do you Yahoo!?
Free Pop-Up Blocker - Get it now
<http://companion.yahoo.com/>

Date: Tue, 25 Nov 2003 11:01:46 -0500
From: "John Shannon" <jsk3wwwp@alltel.net>
To: "QRP Mail List" <qrp-l@lehigh.edu>
Subject: [161861] MailWasher - Addendum
Message-ID: <001801c3b36d\$740074e0\$407466a6@alltel.net>
MIME-Version: 1.0
Content-Type: text/plain;

charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

One last note about MailWasher. Tom, N2UHC tells me that he accidentally typed in www.mailwasher.com instead of .net and got a site that was apparently put up by a spammer to discredit MailWasher. Apparently the spammers are worried because MailWasher is such an excellent spam fighter.

So be sure you use www.mailwasher.net if you are interested in acquiring this fine program. That's the freeware version. You can go directly to the commercial version of MailWasher website at <http://www.firetrust.com/products/mailwasherpro/>.

Down with spam and viruses!

~~~~~  
73 - John, K3WWP - 100% CW & QRP  
using simple wire antennas.

<http://home.alltel.net/johnshan/>

My website is now in its eighth year  
of operation and includes the following:

DX QSL Routes \*\* Operating Tips  
QRP Rigs Info \*\* CW Contest Calendar  
Daily Propagation Info \*\* Your CW Stories  
Teens and CW \*\* Monthly polls  
Categorized Quality Links \*\* MUCH MORE

If you love Morse Code, please join the  
FISTS club - <http://www.fists.org>  
I'm proud to be FISTS # 2002

~~~~~

Date: Tue, 25 Nov 2003 10:30:50 -0600
From: "George, W5YR" <w5yr@att.net>
To: <jsielke@pobox.com>,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [161862] Re: Monday.
Message-ID: <006101c3b371\$897af940\$0401a8c0@PS>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

John, consider the possible scenario that since now AmQRP supports a number of clubs and that a number of clubs offer kits, perhaps Doug is referring to a kit offering from a club other than NorCal, et al. It could be that your friend Karl is a member of such a club and thus has "inside information."

Hope to hear you in the pack tonight!

George, W5YR

----- Original Message -----

From: "John Sielke" <jsielke@pobox.com>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Sent: Tuesday, November 25, 2003 7:17 AM

Subject: Re: Monday.

<snip>

> I think it's really interesting that this information is shared with
> folks out SWest, like Karl, while the rest are kept in the dark.

>

> Waiting to see the price..."Slightly higher EAST of the Rockies..." ??

>

> John W2AGN (Obviously, not of the "in" crowd)

>

Date: Tue, 25 Nov 2003 11:17:33 -0600

From: "George, W5YR" <w5yr@att.net>

To: <k5di@zianet.com>,

"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>

Subject: [161863] Re: MFJ 259B

Message-ID: <011d01c3b378\$04821ff0\$0401a8c0@PS>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Karl, Frank Witt has made some pretty extensive tests of the accuracy of the Autek VA-1, the 259B and the AEA CIA-HF analyzers. The 259B was his choice based on accuracy, repeatability of measurements, and convenience of use. The errors involved in his tuner loss measurement method are in the 3-5% range for the most part using the 259B.

George, W5YR

----- Original Message -----

From: "Karl Larsen" <k5di@zianet.com>

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Sent: Tuesday, November 25, 2003 6:59 AM

Subject: Re: MFJ 259B

> On Mon, 24 Nov 2003, George, W5YR wrote:

>

> > The MFJ 259B is a very popular and commonly used "antenna analyzer" and/or

> > complex impedance meter, among other duties.

<snip>

> Yes, your getting 10-20% error in measurements, but who cares?

> This is a heck of a lot closer than my guess!

> - Karl Larsen k5di Las Cruces, NM Az ScQRPions -

>

Date: Tue, 25 Nov 2003 12:16:14 -0600

From: "Jerry Ford" <benlightnd13@mchsi.com>

To: "Elecraft@mailman.qth.net" <elecraft@mailman.qth.net>,
<Rock-Mite_Group@yahoo.com>, "qrp-l" <qrp-l@lehigh.edu>,

Subject: [161864] Sorry, I couldn't help myself

Message-ID: <00d701c3b380\$3720fb40\$4a78da0c@mchsi.com>

Don't forget the Truffle / Foxii hunts tonight. Bands are much better this week and should provide a ton of fun for all.

72 / 73 oo Jerry N0JRN
FP # 546, 4SQRP, ARS # 923, ARCI # 11049, ARRL,
Springfield, Mo. MP + #8
<http://home.mchsi.com/~n0jrn>

Date: Tue, 25 Nov 2003 12:41:09 -0600

From: Mark Milburn <mark.milburn@ispwest.com>

To: qrp-l@lehigh.edu

Subject: [161865] Iowa QRP Club CW Net
Message-ID: <3FC3A245.EFB62045@ispwest.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

The Iowa QRP Club CW Net will be held on or around
3.709 Wednesday night at 8 PM Iowa time, or Thursday
morning 0200Z.

Join us if you can.

72 Mark KQ0I
Des Moines, Iowa

Date: Tue, 25 Nov 2003 13:35:38 -0500
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <WD8CIV@worldnet.att.net>,
"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [161866] Re: MAX 232 or other TTL-RS232 Interface
Message-ID: <008a01c3b383\$5bfb7640\$0200a8c0@charter.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> I'm pretty sure the Shack doesn't sell MAX232 chips, but here's a
circuit I
> lifted from an old Intel microcontroller handbook:
>
> <<http://home.att.net/~wd8civ/rs232.html>>

Only trouble with that circuit is it only works if one end is 'true blue
rs-232'. You can't fudge both ends. And, you need a pretty robust
'other end' to keep the 'reference charge' up to snuff.

And, put in a 'breakout box' with LEDs and you probably kill the
link!

But that kind of thing does work in a pinch.

Mike

Date: Tue, 25 Nov 2003 13:38:43 -0500
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <WD8CIV@worldnet.att.net>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [161867] Re: How long does it take to destroy a part with high power
Message-ID: <008b01c3b383\$5c24a920\$0200a8c0@charter.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> The next week at class was show & tell again. We were listening to the
> chatter once more when BANG! Dad had put the new cap in backwards.

I can tell you that a tant cap won't take more than 2 or 3 seconds if you
put it in backwards. I had a guy build me some boards. He actually does
EXCELLENT work, and my eyes just can't put down those 100+ pin
parts. He offered to put down more of the surface mount, so I said go
ahead.

Only three tants were in backwards.

I powered up, the circuit initialized, and BANG! Pretty brilliant flash
too!

No damage, other than the caps.

Mike

Date: Tue, 25 Nov 2003 14:30:15 -0500
From: sergio <sergio@village-buzz.com>
To: n3aaz-qrp@juno.com, qrp-l@Lehigh.EDU
Subject: [161868] Re: DEC BIN HEX - Elmer-160
Message-ID: <5.2.1.1.0.20031125140308.02e20d78@mail.neobright.net>
Mime-Version: 1.0
Content-Type: text/plain; x-avg-checked=avg-ok-3C984F0E; charset=us-ascii;
format=flowed

At 10:19 AM 11/25/2003 +0000, you wrote:

>convert number base sixteen to base ten to create a table that shows me
>'the big picture (and memory map) the PIC from John's lesson discussion
>giving various register locations in a new language.

is this from a new lesson?

i downloaded and went through the first two lessons.. they seemed like they can be really neat.. i am excited to be able to order the PIC-EL kit.. i can't wait..

even though i have been using the pic line for a long time, it has never been in the process of something cool like hamming...

as for the excel spreadsheet and converting between hex and decimal numbers, i would most likely discourage that.. the only reason i say that is tha decimal numbers really don't map nicely to this kinda stuff..

hex is a natural choice because it nicely maps to binary numbers..

for instance..

0000 0000 -> 00h

0000 0001 -> 01h

0000 0010 -> 02h

.

.

.

1111 1101 -> FDh

1111 1110 -> FEh

1111 1111 -> FFh

decimal numbers are good for counting things that we see and touch every day.. like apples and dollars and the like.. they map to them well... i think it makes computer stuff too confusing to add another numbering system into the mix..

the text mentions

<http://vwop.port5.com/beginner/bhextut.html>

i didn't look at it, but i am sure it is really good...

>EXCEL's sort capability allows me to keep running notes along side the
>PIC-EL Lesson plan ...

this pic-el lesson plan is also a great way for people to be introduced to assembly language.. assembly is a very very cool thing, but unfortunately, it's a really big undertaking to mess with it on all the latest hardware..

going back to the basics like the pic chip, you learn to write small,

tight, compact code..

it makes for good habits..

peace,
sergio
www.village-buzz.com - read my sexy blog!
www.coffee-black.com - photography....
<http://www.coffee-black.com/join.htm> <-- Join Picture of the Day!

phone ... 419 606 0557

Date: Tue, 25 Nov 2003 14:30:14 -0500
From: Brian <brian@iquest.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Cc: "" <fpqrp-1@mpna.com>
Subject: [161869] NW7US - Prop Prediction
Message-ID: <1069788614.3fc3adc620f2d@webmail.iquest.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit

Here is my updated predictions for the CQ WW CW contest weekend (29-XI-2003 UTC and 30-XI-2003 UTC):

The solar activity that took us by surprise during the end of October and beginning of November 2003 has me revising my outlook for the CQ WW CW contest period of November 29 and 30. I am now expecting conditions to be slightly degraded compared to the forecast conditions published in the CQ Magazine. (See my latest "Last Minute Forecast" chart at <http://prop.hfradio.org/>)

Using the 27-day solar cycle as a guide, we are looking at Above Normal on day one, to High Normal conditions on day two of the contest weekend. Low- and mid-latitude paths will be good, while high-latitude and polar paths will be fair.

The predictions right now call for the planetary A index (Ap) to be 10 on 28-XI-2003 and 29-XI-2003, and 15 on 29-XI-2003. (Some predictions called for the Ap to remain at 15 for both contest days, making day one only High-normal conditions). The 10.7-cm Flux is predicted to be at least 165 to 180 on 28-XI-2003 and 29-XI-2003. On 30-XI-2003, the flux is expected to fall to about 160. A maximum planetary K index (Kp) of 3 is expected for both days.

Polar geomagnetic forecasts are calling for unsettled conditions for trans-polar and high-latitude propagation paths. This will make over-the-pole contacts more challenging.

Will solar flares play havoc on the bands during the daylight hours during the contest? The sunspot regions, 507 and 508, pose the most risk for flare activity. Both have beta-gamma magnetic configurations. Old sunspot region 498 is expected to return from around the sun on day one, but will still be on the very edge. It is predicted to have a beta configuration, so 498's flare risk is low.

A note about magnetic configurations of sunspot groups: Sunspots classed as "beta" groups are simple bipolar regions. "Beta-gamma" sunspot groups are more complex and consist of an irregular mixture of magnetic polarities. The "delta" magnetic configuration only occurs when two closely-spaced, opposite polarity umbrae appear within a single penumbra. This characteristic implies that magnetic field gradients are high and that respectable levels of magnetic shear may exist around the two opposite polarity umbral spots. Sunspot regions that possess the "delta" configuration are the most potentially volatile and flare-prone active regions. Some of the most powerful solar flares in recorded history (including the rare white-light flares) have issued forth from complex sunspot regions containing magnetic delta configurations. The most complex magnetic configurations of sunspot groups is known as a beta-gamma-delta magnetic configuration. (More information: <http://sidc.oma.be/edu/classification.html>) I expect that there will be minor flare activity from these regions over the contest weekend. This will impact the highest bands (10 to 15 meters).

Therefore, I expect that the higher bands will be poor

to good, depending on the path: Trans-equatorial paths (N/S) will be the best, while polar paths will be the worst. The middle HF bands will be good over most paths. The low HF bands and the MW band will fair nicely, since the background X-ray levels are expected to be in the B-class range, and very little geomagnetic activity is expected.

Those operating in low-latitudes will have the best propagation into most areas of the world. All stations will have a slight challenge for any over-the-pole paths. Mid-latitude stations should otherwise have good conditions, while high-latitude stations will have fewer higher frequency openings.

I'll be watching things closely, and will update my predictions if warranted. You can find the latest version at <http://prop.hfradio.org/>

Happy DXing!

73 de Tomas, NW7US (AAR0JA/AAM0EWA)

Date: Tue, 25 Nov 2003 14:30:16 -0500
From: "Jason Hsu" <jhs001@heronetwork.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [161870] Re: How long does it take to destroy a part with high power
Message-ID: <003d01c3b38a\$92e75a00\$64923144@aolDSL.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I've sworn off tantalum capacitors. I once put one in backwards, and it caught on FIRE when I turned the power on. (Fortunately, I managed to turn the power off in time to contain the damage, which was limited to the charred capacitor and a few burn marks on the circuit board under it.)

The + and - sides of tantalum capacitors aren't clearly marked the way they are on electrolytic capacitors. So how am I to know which way to insert them?

Jason Hsu, AG4DG

----- Original Message -----

> > The next week at class was show & tell again. We were listening to the
> > chatter once more when BANG! Dad had put the new cap in backwards.
>
> I can tell you that a tant cap won't take more than 2 or 3 seconds if you
> put it in backwards. I had a guy build me some boards. He actually does
> EXCELLENT work, and my eyes just can't put down those 100+ pin
> parts. He offered to put down more of the surface mount, so I said go
> ahead.
>
> Only three tants were in backwards.
>
> I powered up, the circuit initialized, and BANG! Pretty brilliant flash
> too!
>
> No damage, other than the caps.
>
> Mike
>
>

Date: Tue, 25 Nov 2003 14:24:36 -0600
From: "Stuart Rohre" <rohre@arlut.utexas.edu>
To: <qrp-1@Lehigh.EDU>, "Michael C. Boatright" <ko4wx@mindspring.com>
Subject: [161871] Re: Folks having Earthlink Spam Blocker, and Earthlink ISP
should not expect direct replies to queries
Message-ID: <00e301c3b392\$2501d4e0\$4e100a0a@rohredt2000>

Well Mike, what chaps me is that the Earthlink ISP blocked a university,
(.edu) address in my case of the mail to you. Mine was sent directly thru
internet, not thru an alias or other ISP. If ISP's don't have better spam
blockers than that, I certainly will not be considering Earthlink as a
future provider.

-Stuart K5KVH

Date: Tue, 25 Nov 2003 15:31:27 -0500
From: Ed Tanton <n4xy@earthlink.net>

To: "Jason Hsu" <reply@jasonhsu.com>,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [161872] Re: How long does it take to destroy a part with high power?
LONG
Message-ID: <6.0.0.22.2.20031125133405.01d1f538@pop.earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"; format=flowed
Content-Transfer-Encoding: quoted-printable

Electronic components have finite ratings Jason. The key word in your=20 question is "POWER". If you look up what a "watt" actually represents, it=20 is really a dynamic value. That is to say, it represents a certain amount=20 of 'power' applied to-or received by-something over a definite period of=20 time. Bear with me for some overlapping definitions:

The Wikipedia (a handy ONLINE dictionary at=20 <http://en2.wikipedia.org/wiki/Main_Page>) provides the following:

1) A WATT is: "The WATT (symbol: W) is the=20 <<http://en2.wikipedia.org/wiki/SI>>SI=20 <http://en2.wikipedia.org/wiki/SI_derived_unit>derived unit for=20 <<http://en2.wikipedia.org/wiki/Power>>power. It is equivalent to 1=20 <<http://en2.wikipedia.org/wiki/Joule>>joule per=20 <<http://en2.wikipedia.org/wiki/Second>>second (1 J/s), or in electrical=20 units, 1=20 <<http://en2.wikipedia.org/wiki/Volt>>volt- <<http://en2.wikipedia.org/wiki/Ampere>>= re>ampere=20 (1 V =B7 A). The watt was named after=20 <http://en2.wikipedia.org/wiki/James_Watt>James Watt for his contributions= =20 in the development of the <http://en2.wikipedia.org/wiki/Steam_engine>steam= =20 engine. "

2) A JOULE is: "A JOULE (J) is the <<http://en.wikipedia.org/wiki/SI>>SI unit= =20 of <<http://en.wikipedia.org/wiki/Energy>>energy and=20 <http://en.wikipedia.org/wiki/Work_%28physics%29>work, and is defined as 1= =20 <<http://en.wikipedia.org/wiki/Kilogram>>kg=B7<<http://en.wikipedia.org/wiki/Metre>>m2=B7<<http://en.wikipedia.org/wiki/Second>>s-2=20 =3D 1=20 <<http://en.wikipedia.org/wiki/Newton>>N=B7<<http://en.wikipedia.org/wiki/Metre>>= >m=20 =3D 1=20 <<http://en.wikipedia.org/wiki/Watt>>W=B7<<http://en.wikipedia.org/wiki/Second>>= s.=20 It is named in honour of the physicist=20

http://en.wikipedia.org/wiki/James_Prescott_Joule>James Prescott Joule.

One joule is the work required to exert a force of one newton for a distance of one metre, so the same quantity may be referred to as a newton-metre. However, to avoid confusion the newton metre is usually used as a measure of <http://en.wikipedia.org/wiki/Torque>>torque, not energy. Another way of visualizing the joule is the work required to lift a mass of 102 g (e.g. a small apple) for one metre under the earth's gravity.

One joule is also the work done to produce power of one watt for one second, such as when somebody takes one second to lift the small apple mentioned above through one metre under the earth's gravity.

1 joule is equal to:

- * 0.000,000,278 http://en.wikipedia.org/wiki/Kilowatt_hour>kilowatt-hours
- * 0.239 <http://en.wikipedia.org/wiki/Calorie>>calories
- * 0.000,948 http://en.wikipedia.org/wiki/British_thermal_unit>British thermal units
- * 0.738 foot pounds force
- * 1 W·s (<http://en.wikipedia.org/wiki/Watt>>watt-second)
- * 1 N·m (<http://en.wikipedia.org/wiki/Newton>>newton-metre)
- * 23.7 foot poundals
- * 10,000,000 <http://en.wikipedia.org/wiki/Erg>>ergs

See http://en.wikipedia.org/wiki/1_E0_J>1 E0 J for further comparisons.

See also: http://en.wikipedia.org/wiki/Conversion_of_units>conversion of units, http://en.wikipedia.org/wiki/Electron_volt>eV, <http://en.wikipedia.org/wiki/KWh>>kW·h, <http://en.wikipedia.org/wiki/TWh>>TW·h "

(NOTE: A link to a Conversion Calculator is: <http://www.ex.ac.uk/cimt/dictunit/ccenrgy.htm>>Conversion Calculator for Units of ENERGY)

3) A kW-h (kiloWatt-hour) as: " The KILOWATT HOUR (symbol: Kw-H) is a unit for measuring <http://en2.wikipedia.org/wiki/Energy>>energy. It corresponds to one <http://en2.wikipedia.org/wiki/Kilowatt>>kilowatt (kW) of <http://en2.wikipedia.org/wiki/Power>>power being used over a period of one=

=20

<<http://en2.wikipedia.org/wiki/Hour>>hour.

The kilowatt hour is commonly used for=20

<http://en2.wikipedia.org/wiki/Electrical_energy>electrical energy, since=20
it may be easier to understand in a practical context than the proper=20

<http://en2.wikipedia.org/wiki/SI_unit>SI unit for energy, the=20

<<http://en2.wikipedia.org/wiki/Joule>>joule, which is a=20

<<http://en2.wikipedia.org/wiki/Watt>>watt=20

<<http://en2.wikipedia.org/wiki/Second>>second (W=B7s). The joule is a=20
comparatively small unit, making numbers quite large.

1 kW=B7h =3D <http://en2.wikipedia.org/wiki/1_E6_J>3,600,000 joules. The=20
kilowatt hour is a commonly used unit of billing for=20

<http://en2.wikipedia.org/wiki/Public_utility>electric utility companies,=20
although many companies are moving to use the unit=20

<http://en2.wikipedia.org/wiki/1_E6_J>megajoule(MJ) instead. "

And finally, it defines a COULOMB as:

4) "The COULOMB, symbol C, is the <http://en2.wikipedia.org/wiki/SI_unit>SI=
=20

unit of <http://en2.wikipedia.org/wiki/Electric_charge>electric charge, and=
=20

is defined in terms of the <<http://en2.wikipedia.org/wiki/Ampere>>ampere: 1=
=20

coulomb is the amount of electric charge carried by a current of 1 ampere=20
flowing for 1 second."

First note that, while TIME isn't always a listed as a component of POWER,=
=20

it is always implied or inherent. A JOULE of energy CAN be expressed in=20
energy x distance =3D work, yet we know that to move something from point A=
=20

to Point B, TIME is required. Also note that the terms to do that (weight,=
=20

distance, AND time) are proportional. The ONE term that seems to NOT=20
include TIME (1 Joule =3D 1Nm) actually DOES:

5) "In <<http://en.wikipedia.org/wiki/Physics>>physics, a derived=20

<http://en.wikipedia.org/wiki/SI_unit>SI unit, the NEWTON (symbol: N) is=20
the unit of <http://en.wikipedia.org/wiki/Force_%28physics%29>force, named=
=20

for Sir <http://en.wikipedia.org/wiki/Isaac_Newton>Isaac Newton in=20
recognition of his work on=20

<http://en.wikipedia.org/wiki/Classical_mechanics>classical mechanics. It=20
was adopted by the General Conference on Weights and Measures (CGPM) in=20
<<http://en.wikipedia.org/wiki/1960>>1960. It is defined as the amount of=20

force required to [accelerate](http://en.wikipedia.org/wiki/Accelerate) a one-[kilogram](http://en.wikipedia.org/wiki/Kilogram) [mass](http://en.wikipedia.org/wiki/Mass) at a rate of one [meter](http://en.wikipedia.org/wiki/Meter) per [second](http://en.wikipedia.org/wiki/Second) per second." (Again from Wikipedia.)

So what do all these terms and definitions mean, and how do they relate to your question?

They explain that our units of energy and power require TIME to be appropriately exercised. A 1/4W resistor does not say something like: "This resistor is capable of dissipating 1/4W of power for 15 minutes, and should be de-rated in ever-decreasing values thereafter, for a period of one hour...", etc. etc. But some statement like that IS TRUE. Not THAT statement, but something like it.

There are several variables that you must consider: is the resistor in free-space, or confined. Is it touching a circuit board (that helps slightly) and is there a copper plane touching it. Does it have large copper pads around its leads (SMT or wire.) Most important of all, what power is it having to dissipate, and is that requirement constant. So the 1/4W is a starting point only.

Your question mentioned two resistors, capable of 2W total dissipation. Let's use 100W of actual transmitter (e.g. output) power. For power calculations, it doesn't matter whether the resistors are in series or parallel-they still total 2W. And-not counting near infinite SWR-a 1W resistor body does not have to worry about the voltages involved in a 100W transmitter.

The obviously critical question is: how long will the resistors be exposed to that 100W? The average CW dit at 40 words-per-minute is about 20mS long. I would suggest that even 20% of that 20mS as a 'loss-on-1st-dit' would be almost discernable. Your average vacuum relay switches in well under 8mS. Let's (arbitrarily) assign a 20mS switching time to the 'net' bypass switching circuitry in the ANC-4. That would mean the resistors (if they were going to ground) would have to dissipate 100W for 20mS-in other words, 0.02S, making the equivalent power the resistors are 'exposed' to a convenient 2W, worst case.

As for voltage, THAT is not a function of the device-under-test's power rating, but rather the capability of its insulation. A 1W resistor has a fairly large physical path over which a voltage would have to travel in order to arc. That's not going to happen at 100W-except (as mentioned earlier) due to some sort of infinite SWR situation. For semiconductors it's a function of their physical (internal) construction and composition materials.

This power rating business can work both ways: I have an Ameco PT-3 preamp I used to use on a Drake TR-7. It has built-in RF-sensed switching. Occasionally, it would get cross-ways with the TR-7's T/R Switching, and the 75-100W output would be applied to the PT-3's input. That input with the 2nd receiver option-consisted of a simply resistive power divider using first of all a 100 ohm 1/8W resistor; followed by two back-to-back 1N914s into a 0.01 capacitor; and then a 1.5k 1/8W resistor (to ground) and a 40673 MOSFET. This would occur every few weeks at keying speeds above 30 wpm. Nine times out of ten, the 100 ohm 1/8W resistor would blow, period. Twice (over a year and a half) the 100 ohm 1/8W resistor and the diodes went; and twice, the whole thing (100 ohm 1/8W resistor, diodes, and 40673) went. Mostly, you could say, the 100 ohm 1/8W resistor did a great job.

In summary, "how long" is a function of a number of variables: original ratings; heat sinking; actual power-exposure-time vs apparent time; and duty cycle. That last point is important because, for continuous application, SOME continuing rise in temperature is inevitable-until a balance between what power is being put in, and what power is being dissipated, is reached. I ALWAYS de-rate resistors and transformers by 20% minimum-usually more if possible-anytime, and do so especially if I expect near-continuous operation. I de-rate semiconductors by 100% and more, normally-and as much as 200%-for current; and as much as 500% for voltage-depending on the device, and the application. Also, any unusual parameter such as continuous duty, smaller-than-I-would-like heatsink, or etc. greatly influences this in practice.

72/73 Ed Tanton N4XY <n4xy@earthlink.net>

Ed Tanton N4XY
189 Pioneer Trail

Marietta, GA 30068-3466

website: <http://www.n4xy.com>

All emails <IN> & <OUT> checked by
Norton AntiVirus with AutoProtect

LM: ARRL QCWA AMSAT & INDEXA;
SEDXC NCDXA GACW QRP-ARCI
OK-QRP QRP-L #758 K2 (FT) #00057

"He that gives up a little liberty to gain
temporary security will lose both and
deserve neither".
--Benjamin Franklin

"Suppose you were an idiot ...
and suppose you were a member of
Congress... but I repeat myself."
--Mark Twain

Date: Tue, 25 Nov 2003 14:36:47 -0600
From: "Stuart Rohre" <rohre@arlut.utexas.edu>
To: "elecraft" <elecraft@mailman.qth.net>, <qrp-1@Lehigh.EDU>
Subject: [161873] Comparison of the K2 to the Ten Tec Orion in Europe RF
environment
Message-ID: <013301c3b393\$ed6ca2b0\$4e100a0a@rohredt2000>

Folks, this is one of the best reviews and head to head tests I have seen.

The K2 comes off a lot better than another import ; although the far more
expensive Orion shines best of all. But, what a tribute to the designers of
the K2 that they can go head to head to a much more complicated/ expensive
radio!

www.bavarian-contest-club.de/reviews/orion_on_the_air_test_v2.pdf

-Stuart
K5KVH

Date: Tue, 25 Nov 2003 15:46:02 -0500
From: Brad Thompson <Brad.Thompson@valley.net>
To: "Jason Hsu" <reply@jasonhsu.com>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [161874] Re: How long does it take to destroy a part with high power?
Message-ID: <5.0.2.1.2.20031125152056.02001b80@pop3.norton.antivirus>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 10:57 PM 11/24/2003 -0500, Jason Hsu wrote:

><snip>

>Can someone shed some light for me on just how long an electronic component
>can withstand more than its rated capacity? I'm sure that 100V for 1
>picosecond is OK but 100V for 1 second is not. But what about exposure times
>in between these extremes?

Hello--

Well, that depends on the component's construction and physical size. I can think
of a couple of mechanisms that will determine what happens:

Thermal mass-- if you apply a high-power pulse, the localized heat produced
by losses in the
component takes a certain amount of time to reach other regions of the
component.

Look at the specs for a diode such as the 1N 400x family. There should
be a graph
whose vertical axis is labeled, "Maximum nonrepetitive surge current" and whose
horizontal axis is labeled, "Number of cycles at 60 Hz". That curve defines
peak sustainable
power as a function of time.

Irreversible change of state-- if you apply enough power to melt or
vaporize a portion (or all)
of a device, you've clearly changed its characteristics<g>.

An electrical fuse behaves this way. It'll sustain some fairly large pulses
of power, but at some
point its element will melt or vaporize.

You could crowd a 100-watt, 1 picosecond pulse into a 1/4-watt resistor,
which might have enough
thermal mass to theoretically survive, but localized heating might vaporize
a portion of the resistance
element.

Remember that knowledge gained is directly proportional to the number of instruments and components destroyed<g>.

73-

Brad AA1IP

Date: Tue, 25 Nov 2003 14:44:17 -0600 (CST)
From: Dale Botkin <dale@botkin.org>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [161875] Re: How long does it take to destroy a part with high power
Message-ID: <Pine.LNX.4.33.0311251437580.1261-100000@madmax.botkin.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Tue, 25 Nov 2003, Mike Yetsko wrote:

> I powered up, the circuit initialized, and BANG! Pretty brilliant flash
> too!

I had an intertesting tantalum cap failure once. We had a machine (Xerox 9700, if you must know) that would crowbar the +5 supply whenever it was powered on. Replaced the PS, no joy. Checked the wiring harness for shorts - nothing. I finally was in poking around on the backplane, looking for some sort of debris or burn marks. Noticed what looked like a tiny blob of solder on the side of a fairly large tantalum cap. Turns out this thing had melted internally and fused into a solid metal blob, a nice dead short. The ONLY external indication was a barely visible hairline crack across one side, with very tiny evidence that molten metal had blown out the side -- there was a pinhead sized blob rolling around loose in the bottom of the cabinet too. It was enough to cause the voltage regulator to detect an overcurrent condition and shut down. Clipped the leads and everything worked fine, so I replaced it with a new one and it was off to the races.

Moral: Never trust the component to LOOK bad.

73,

Dale - N0XAS

--

It's a thankless job, but I've got a lot of Karma to burn off.
PicoKeyer Analog with pot speed control now available! Or add memory and more to your Rock-Mite -- <http://www.hamgadgets.com>

Date: Tue, 25 Nov 2003 13:48:40 -0700 (MST)
From: Karl Larsen <k5di@zianet.com>
To: qrp-1@lehigh.edu
Subject: [161876] CQWW DX Contest CW
Message-ID: <Pine.LNX.4.44.0311251341560.4682-100000@bucket.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

This contest is comming up this weekend and it's just uncanny how THIS weekend always has great propogation! For 25 years I have done this contest and I can not think of a year when condititions were not good.

Looking at the solar web pages it looks like tonight for the Fox hunt we could hold it on 10 meters! On 40 it should be a good "3 fer" for everyone. Today the flux is 177.

Saturday it will even be better looking at predictions. I will be there with my Yaseu FT-817 calling and working rare countries like Canada...:-)

--

- Karl Larsen k5di Las Cruces,NM Az ScQRPions -

Date: Tue, 25 Nov 2003 15:58:59 -0500
From: "Brent Sutphin WB4X" <bsutphin@triad.rr.com>
To: <qrp-1@Lehigh.EDU>
Subject: [161877] Hustler 6BTV and 17 Meters
Message-ID: <003e01c3b396\$f340ea90\$9e6d1f18@BandE>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I have a Hustler 6BTV. It is a wonderful antenna. I have W.A.S. QRP using it and have worked 55 countries in just a couple of months running only 10 watts. I do have a good radial system under it with 50 or so radials. I would like to use this antenna on 17 meters. Does anyone have any suggestions as to what the best way to accomplish this? My main station rig is a K2. The k2's tuner will tune it to !.1-1 SWR but the antenna is just dead...I need to resonate the antenna it's self on 17 meters. What I have

in mind is to use a 1/4 wave parallel wire cut for 17. Run it up the side of the 6BTV spaced at about 6 inches. Suggestions Please.....

Thanks
Brent WB4X

Date: Tue, 25 Nov 2003 16:03:44 EST
From: JClinton46@aol.com
To: qrp-l@lehigh.edu
Subject: [161878] re: Monday
Message-ID: <1c9.12597da3.2cf51db0@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Did I miss something?
<Guys, be sure to read this list Monday. 72, Doug>

I waited ... and read the list like I usually do ... but did not catch any unusual/important/etc. announcements.
Doug, it's now Tuesday (or later) all over the world.
73,
Clint Poss
KE4FDT

Date: Tue, 25 Nov 2003 16:53:05 -0500
From: "Bob Schreibmaier" <k3ph@ptd.net>
To: <qrp-l@Lehigh.EDU>
Subject: [161879] Re: MAX 232 or other TTL-RS232 Interface
Message-ID: <000301c3b39e\$81ff4220\$6400a8c0@k3ph>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Hi Barry,

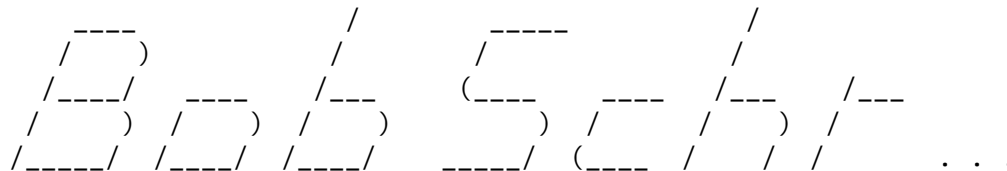
>Was wondering if anyone happens to know if Radio Shack
>sells the MAX 232 chip (RS232 driver/receiver)? Or
>does anyone know a simpler (and reliable) circuit to

>provide TTL to RS232 translation? Trying to interface
>a Kenwood rig's control port to a pc.

The simplest interface from a PC to a Kenwood that I've ever seen is the one that Gerry, W1GD, has used for years. It consists of a 1N4733 Zener diode. That's it. It connects from the transmit data lead on the PC to ground. Then, the junction of the Tx/D lead and Zener is connected to the receive data lead on the Kenwood. The transmit data lead on the Kenwood is simply connected to the receive data lead on the PC.

Gerry has been using this circuit with his TS-940S for at least a decade now.

72/73,



```
+-----+
| Bob Schreibmaier K3PH | E-mail: k3ph@ptd.net |
| Kresgeville, PA 18333 | http://www.dxis.org  |
+-----+
```

Date: Tue, 25 Nov 2003 15:07:59 -0700 (MST)
From: Karl Larsen <k5di@zianet.com>
To: "George, W5YR" <w5yr@att.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [161880] Re: MFJ 259B
Message-ID: <Pine.LNX.4.44.0311251449490.4682-1000000@bucket.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Tue, 25 Nov 2003, George, W5YR wrote:

> Karl, Frank Witt has made some pretty extensive tests of the accuracy of the
> Autek VA-1, the 259B and the AEA CIA-HF analyzers. The 259B was his choice
> based on accuracy, repeatability of measurements, and convenience of use.
> The errors involved in his tuner loss measurement method are in the 3-5%
> range for the most part using the 259B.

I would be interested where he got his numbers. A lot of the calculations are based on the calculated SWR versus 50 ohms and my Vectronics will measure at best 1/10 th of a number. On higher SWR numbers it's 20,21,22 ect. So this alone is not real accurate. So I would guess this is plus or minus 5%.

Frequency is within 100 Hz. This is really good. Mine calculates Z defined as the series impedance of $R + jC$ and it is shown as a whole number. Never tenths so your picking up another plus or minus 5% here.

Your device calculates $R + jC$ and mine does not. But I wrote a simple C program which you feed frequency, Z and SWR and it writes out $R + jC$. I think your device uses the same equation and there are conditions where a 5% error in SWR will cause a 10% or more error in R or jC.

My off hand guess at your accuracy may be too high. But if I were doing work for money with my Vectronics 584 I would not promise better than plus or minus 10% for all my numbers.

```
>
> George, W5YR
>
> ----- Original Message -----
> From: "Karl Larsen" <k5di@zianet.com>
> To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
> Sent: Tuesday, November 25, 2003 6:59 AM
> Subject: Re: MFJ 259B
>
>
> > On Mon, 24 Nov 2003, George, W5YR wrote:
> >
> > > The MFJ 259B is a very popular and commonly used "antenna analyzer"
> > and/or
> > > complex impedance meter, among other duties.
>
> <snip>
>
> > Yes, your getting 10-20% error in measurements, but who cares?
> > This is a heck of a lot closer than my guess!
>
> >
> > - Karl Larsen k5di Las Cruces,NM Az ScQRPions -
> >
>
>
--
```

- Karl Larsen k5di Las Cruces,NM Az ScQRPions -

Date: Tue, 25 Nov 2003 17:07:09 -0500
From: John Sielke <jsielke@pobox.com>
To: qrp-l@lehigh.edu
Subject: [161881] Re: How long does it take to destroy a part with high power?
SHORT
Message-ID: <3FC3D28D.2050300@pobox.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

Ed's reply was extremely detailed and accurate. Let me give you the short answer.

"The part will self-destruct one nanosecond BEFORE you turn off the power."

This is one of many corollaries to "Murphy's Law."

Another is:

"The part, costing X dollars will always be destroyed, in spite of being protected by a fuse, costing Y cents." (Where X=large number, Y=small number).

John W2AGN

Date: Tue, 25 Nov 2003 17:11:43 -0500
From: "Marty Hartwell" <chartwell@worldnet.att.net>
To: "QRP-L" <qrp-l@lehigh.edu>
Subject: [161882] FS keyers
Message-ID: <LCEBJOKPGPNGOAKECJNGGEFDCNAA.chartwell@worldnet.att.net>

Hi

I still have two partially completed keyers for sale. Both have been assembled but not in an enclosure.

1. Ten Tec keyer kit assembled and works.
2. Surface mount keyer as a starter kit for surface mount practice, it

doesn't work.

I have documentation for both, I will sell both for \$25.00 including shipping. I will sell them seperately for \$15.00 each and ship. Not fancy but they were fun to play with.
I now have a fancy memory keyer to learn how to use.

Marty kd8bj

chartwell@att.net

Outgoing mail is certified Virus Free.
Checked by AVG anti-virus system (<http://www.grisoft.com>).
Version: 6.0.542 / Virus Database: 336 - Release Date: 11/18/03

Date: Tue, 25 Nov 2003 16:33:08 -0600
From: "Jerry Hall" <lugehall@hotmail.com>
To: qrp-1@Lehigh.EDU
Subject: [161883] FOX HUNT TONIGHT!
Message-ID: <BAY9-F52jHY2ToHsA6W0001a08c@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Don't forget the FOX Hunt tonight on 40 Meters from 0200Z to 0400Z. N1FN in Colorado will be above 7.040 Mhz and I will be the low fox operating below 7.040 Mhz from my QTH in central Iowa. Before the FOX Hunt (0130Z to 0200Z) be sure and stop by 7.044 Mhz and work N0JRN in the Truffle Hunt. Good Luck!
72,
Jerry Hall - W0PWE

Share holiday photos without swamping your Inbox. Get MSN Extra Storage now! <http://join.msn.com/?PAGE=features/es>

Date: Tue, 25 Nov 2003 22:56:40 +0000
From: "Bill Rowlett" <kc4atu@hotmail.com>
To: qrp-1@Lehigh.EDU

Subject: [161884] Re: Comparison of the K2 to the Ten Tec Orion in Europe RF environment

Message-ID: <Law15-F113rxNKaH4Pe00013ee2@hotmail.com>

Mime-Version: 1.0

Content-Type: text/plain; format=flowed

Man, what ever happened to doing apple to apple comparrisions. For those who want to read how the Orion does in the real world, go to

<http://lists.contesting.com/archives/html/Topband/2003-10/msg00006.html>

for the review by mister low band himself. ON4UN, John Devoldere. This was on 160m.

73, Bill kc4atu

>From: "Stuart Rohre" <rohre@arlut.utexas.edu>

>Reply-To: rohre@arlut.utexas.edu

>To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

>Subject: Comparison of the K2 to the Ten Tec Orion in Europe RF environment

>Date: Tue, 25 Nov 2003 14:36:47 -0600

>

>Folks, this is one of the best reviews and head to head tests I have seen.

>

>The K2 comes off a lot better than another import ; although the far more

>expensive Orion shines best of all. But, what a tribute to the designers

>of

>the K2 that they can go head to head to a much more complicated/ expensive

>radio!

>www.bavarian-contest-club.de/reviews/orion_on_the_air_test_v2.pdf

>

>-Stuart

>K5KVH

>

>

Gift-shop online from the comfort of home at MSN Shopping! No crowds, free parking. <http://shopping.msn.com>

Date: Tue, 25 Nov 2003 18:37:36 -0500

From: Brad Thompson <Brad.Thompson@valley.net>

To: dale@botkin.org,

"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: [161885] Re: How long does it take to destroy a part with high power

Message-ID: <5.0.2.1.2.20031125183604.023fb6b0@pop3.norton.antivirus>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

At 02:44 PM 11/25/2003 -0600, Dale Botkin wrote:

>On Tue, 25 Nov 2003, Mike Yetzko wrote:

>

> > I powered up, the circuit initialized, and BANG! Pretty brilliant flash

> > too!

>

>I had an intertesting tantalum cap failure once.<snip>The ONLY external

>indication was a barely visible hairline

>crack across one side, with very tiny evidence that molten metal had blown

>out the side -- there was a pinhead sized blob rolling around loose in the

>bottom of the cabinet too.

Hello--

I've seen metal-oxide varistors (MOVs) fail in a similar fashion-- cute
spherical glob

of metal protruding through the MOV's epoxy coating.

73--

Brad AA1IP

End of QRP-L Digest 3115
